

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
SECOND YEAR INTERNSHIP DATA FOR THE YEAR 2021-2022**

PROGRAM NAME	S.No
B.E (CSE)	1-196
B.E - CSE(AIML)	197-262
B.E - CSE(IOT,BCT&CS)	263-326
B.E (AIML)	327-390


Professor and Head Department
Department of Computer Science & Engineering
Chaitanya Bharathi Institute of Technology (A)
Gandipet, Hyderabad-500 075.(T.S.)

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A)
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
SECOND YEAR INTERNSHIP DATA FOR THE YEAR 2021-2022

S NO	NAME AND ROLL NUMBER	PAGE NO
1	Deepsikha Adidam-160120733002	8
2	Jahnavi Manoj-160120733003	10
3	Jahnavi Reddy Malreddy-160120733004	11
4	Jeevika Mekala-160120733005	12
5	Jyothi Sree P-160120733006	31
6	Lalasa Reddy Jogadinnemeeda-160120733007	14
7	Manisha T-160120733008	16
8	Meghana Ganapuram-160120733009	17
9	Nandini Nenavath-160120733010	18
10	Neha Krishna Karampuri-160120733011	19
11	Nikhitha Tubati-160120733012	20
12	Sai Praveena Karnati-160120733013	21
13	Satvika Basanamoni-160120733014	22
14	Shirisha Siddireddy-160120733015	23
15	Sowmika Alwal-160120733017	24
16	Vaishnavi Sirigiri-160120733020	25
17	Aadarsh Pokala-160120733021	26
18	Adarsh Kumar Akula-160120733022	27
19	Aman Rachala-160120733023	29
20	Ameenuddin Ahmed Mohd-160120733024	30
21	Bhanuteja Vittalapuram-160120733025	51
22	Bow Singh B-160120733026	52
23	Chetan Pande-160120733027	53
24	Dhanush B-160120733028	55
25	Dhruv Saxena-160120733029	56
26	Ganesh Nedunuri-160120733030	57
27	Gokul Chinthalapudi-160120733031	58
28	Gopal Matcha-160120733032	61
29	Likith Reddy Irigela-160120733033	63
30	Mahesh Kumar Kummari-160120733034	64
31	Pavan Harshit Ch-160120733035	65
32	Philip Godala-160120733036	66
33	Pranav Reddy Asireddy-160120733037	67
34	Pratham Reddy V-160120733038	69
35	Puneeth Batchu-160120733039	71
36	Raghu Buchala-160120733040	74
37	Ram Charan Reddy Thummala-160120733041	76
38	Sai Abhiram Alluri-160120733042	79

39	Sai Ganesh Mandala-160120733043	81
40	Sai Kishore Bandari-160120733044	82
41	Sai Murari G G G-160120733045	83
42	Sai Ruthvik Reddy Korem-160120733046	84
43	Sai Saketh Konjerla-160120733047	85
44	Sai Vishal Uppala-160120733048	87
45	Satvik Yadav Elitem-160120733049	88
46	Shahbaz Jahan M G-160120733050	89
47	Shaik Abdul Khader Al Amoudi-160120733051	90
48	Shyam Sundar Pobbothi-160120733052	91
49	Siddhardha Kattanguru-160120733053	92
50	Sree Harshith Vajinepalli-160120733054	93
51	Sumanth Geddam-160120733055	95
52	Tanish Rohil Gali-160120733056	109
53	Uday Rose-160120733057	97
54	Vamshi Krishna Bathula-160120733058	98
55	Vikram Mali-160120733059	99
56	Vishnu Sathwik Rebally-160120733060	100
57	Vinay Kumar-160120733181	492
58	Mayank Gujrathi-160120733301	102
59	Vadnala Nikita-160120733302	104
60	Chintala Sai Akshitha-160120733303	105
61	Pagidipala Rajavardhan-160120733304	106
62	Aleti Snigdha-160120733305	107
63	Boora Anusha-160120733306	108
64	Amulya Nandala-160120733063	111
65	Anjali Vanam-160120733064	112
66	Hamsitha Kotla-160120733069	113
67	Harshitha Reddy Mallu-160120733071	116
68	Niveditha Reddy Mandala-160120733074	117
69	Poojitha Pachava-160120733075	118
70	Roopika Ponnur-160120733077	119
71	Sreeni Tummuru-160120733083	120
72	Srimeghana Akella-160120733084	121
73	Srinidhi Challa-160120733085	122
74	Tejaswi Karri-160120733086	123
75	Vaasuki Achampeta-160120733087	124
76	Yahshaswitha S-160120733088	125
77	Abhinav J M S-160120733089	126
78	Abhinav Sandru-160120733090	127
79	Adityanarayana Rao Yerabati-160120733091	130
80	Akash Bathula-160120733092	131
81	Arunanjan Bandari-160120733093	132

82	Ashish Golla-160120733094	133
83	Bhanu Prakash N-160120733095	135
84	Bharath Chandra Nagunuri-160120733096	136
85	Chandra Bose Chiluka-160120733097	137
86	Dheeraj Nune A S-160120733098	138
87	Harshavardhan Reddy V S K-160120733099	147
88	Hemananda Reddy Kottakapu-160120733100	151
89	Jayesh Dhoot-160120733101	155
90	Mohd Asaduddin Amaan-160120733102	156
91	Nithish Rao Gottumukkula-160120733103	157
92	Phaneendra Koushik Ballamudi-160120733104	162
93	Pradyumna Balaji Akkaldevi-160120733105	164
94	Ragul G-160120733106	165
95	Sai Hemanth Sanganabhatla-160120733108	170
96	Sai Kumar Jampala-160120733109	171
97	Sankara Bharadwaj Rangavajjala-160120733110	172
98	Sathvik Bandaru-160120733111	173
99	Sharon Joseph Enduri-160120733112	176
100	Shiva Kumar Bandam-160120733113	177
101	Shiva Sai Balne-160120733114	178
102	Sravan Linga-160120733115	179
103	Sreevardhan Reddy Kasireddy-160120733116	182
104	Swaroop Patnaik-160120733117	183
105	Syed Md Kashan Naiyer-160120733118	186
106	Varshith Reddy Ravula-160120733119	187
107	Vikas Swagath Rapelly-160120733120	188
108	Maroju Nikhil-160120733307	193
109	Veldoj Saiteja-160120733308	194
110	Angoth Sridhar-160120733309	195
111	Aratla Yogitha-160120733310	196
112	Kamatam Akanksha-160120733311	197
113	Mudavath Swapna-160120733312	198
114	G. Alekhya - 160120733121	199
115	Asiya Anjum - 160120733122	201
116	D.Asritha-160120733123	203
117	Laya Chalamchyla-160120733124	204
118	Chandralekha - 160120733125	205
119	V. Jhahnavi - 160120733126	207
120	G. Kiranmani - 160120733127	209
121	Roshini Singh - 160120733129	211
122	Y Sai Keertana-160120733130	214
123	P. Veekshah - 160120733131	215
124	Sampriti Thummala-160120733132	217

125	Sanvi reddy-160120733133	218
126	Saphalya Peta - 160120733134	219
127	Shreya Koka - 160120733135	222
128	Shreya Sriram-160120733136	224
129	Srihitha-160120733137	225
130	Sunshine - 160120733138	226
131	Sunkari Varshika - 160120733140	228
132	Vineela Bellamkonda - 160120733141	229
133	Yashasvi - 160120733142	231
134	Maraju Aakash - 160120733143	233
135	Abhiram pendyala-160120733144	237
136	Achyuth reddy-160120733145	238
137	AKASH KASAM-160120733146	239
138	Aniketh reddy-160120733147	240
139	Bharath Varala - 160120733148	241
140	Somula Bala Chandra Shekhar - 160120733149	243
141	Kandula Dinesh-160120733150	245
142	Anirudh Vyas - 160120733151	246
143	Komal Adithya Reddy - 160120733152	248
144	Mohammad Sohail - 160120733154	250
145	Kasa Naga Sai Vivek - 160120733155	252
146	B Naren reddy-160120733156	254
147	Are Nithin - 160120733158	255
148	J. Nithin - 160120733159	257
149	R. Nitin - 160120733160	258
150	Prahas-160120733161	260
151	Raghav Gupta-160120733162	261
152	Rahul Yela-160120733163	263
153	Rayan Ahmed-160120733164	265
154	Regella Sai Karthik-160120733165	267
155	S.Sai Pranay-160120733166	269
156	MAREPALLY SAI TEJA-160120733167	270
157	Sriram Chagarlamudi-160120733170	271
158	SRITEJA G-160120733171	272
159	Sujith Kumar Velpula-160120733172	273
160	Sushanth Reddy T-160120733173	275
161	JAMPANI TEJA SAI CHENNA MALLESWAR RAO-160120733175	277
162	Sama Uday Kumar Reddy-160120733176	278
163	Ch Venkata Koti Reddy-160120733177	279
164	Vijay Vardhan Reddy - 160120733178	280
165	Vijaya Venkata Sai - 160120733179	282
166	Virat Karthikeya Koramati - 160120733180	284
167	Patcha Kiran Deep - 160120733183	286

168	Bommena Ashok - 160120733314	287
169	Gadham Srinivas - 160120733315	308
170	Mohammed Usama Ahmed -160120733316	328
171	V. Shirisha - 160120733317	329
172	R. Nihal Kumar - 160120733318	331
173	G. Mohan Krishna Yadav - 160120733319	332
174	Afifa Fatima-160120748001	333
175	Archana Bondapalli-160120748002	334
176	Harika Dasari-160120748003	335
177	Mitali Singh-160120748004	336
178	Mokshitha Mandadi-160120748005	338
179	Parnashri Nandam-160120748006	339
180	Pranava Gayathri Aavuti-160120748007	340
181	Prerana J-160120748008	341
182	Rishitha Reddy Gudipati-160120748009	342
183	Sannihitha Navuluru-160120748010	343
184	Sathvika Karipa-160120748011	344
185	Sathvika Papishetti-160120748012	345
186	Sheeba Manukonda-160120748013	346
187	Shresta Gupta Vandanapu-160120748014	350
188	Snigdha Mohana Addepalli-160120748015	351
189	Sreeja Paka-160120748016	352
190	Sreya Reddy Addula-160120748017	353
191	Sri Sanjana Berugu-160120748018	354
192	Sruthika Bachu-160120748019	355
193	Tejaswi Koppiseti-160120748020	356
194	Varshitha Minumula-160120748021	357
195	Abhinav Tej Naik Mude Chowhan-160120748022	358
196	Aditya Koushik Desai-160120748023	359
197	Balveer Kain-160120748024	360
198	Chandra Shekar Reddy P-160120748025	361
199	Chetan Reddy Velagala Siva-160120748026	362
200	Gowtham Sai M-160120748028	363
201	Harshit Chokda-160120748029	364
202	Kasinath Sangem-160120748030	365
203	Kowshik Ranga-160120748031	366
204	Kundan Sai Kotta-160120748032	368
205	Likhith Sai Valluru-160120748033	369
206	Madireddy Sai Siddarth Reddy-160120748034	371
207	Manav Muramshetty-160120748035	372
208	Mohammed Abdur Rahman-160120748036	373
209	Mohd Shoeb Ahmed-160120748037	374
210	Mukesh Patel-160120748038	375

211	Naga Lalith Ryakam-160120748039	376
212	Nagaraju Bajjuri-160120748040	377
213	Nagesh Reddy Musku-160120748041	379
214	Nihar Tokachichu-160120748042	381
215	Nikhil Mudumba-160120748043	382
216	Noor Mohammed Syed-160120748044	383
217	Prashanth Reddy Simhadri-160120748045	384
218	Ruthvik Athi-160120748046	385
219	Sai Amith Guntha-160120748047	386
220	Sai Nikhil Samineni-160120748048	387
221	Sai Varshith Shivarampally-160120748050	388
222	Sai Venkata Nitin Bachu-160120748051	389
223	Saketh Botte-160120748052	390
224	Sanketh Kumar Kistappagari-160120748053	391
225	Shiva Krishna Peechara-160120748054	392
226	Shivaganesh Shanigaram-160120748055	393
227	Srijay Simha Reddy C-160120748056	394
228	Vivek Gandasiri-160120748057	395
229	Yashwanth Reddy K-160120748059	396
230	Yeswanth Kondabolu-160120748060	397
231	Udutha Manohar-160120748301	398
232	Gamasu Rangha Vardhan-160120748302	399
233	Mohammad Shireen-160120748303	416
234	Chira Sriya-160120748304	417
235	Bheem Shashivardhan-160120748305	419
236	Mareddy Shiva Reddy-160120748306	420
237	Anam Fathima-160120749001	424
238	Anita Chennuru-160120749002	425
239	Anjali N-160120749003	426
240	Chandrika Mekala-160120749004	427
241	Hamsini Duttaluri-160120749005	428
242	Laxmi Priya Neela-160120749006	429
243	Manasvi K-160120749008	430
244	Nithya Sai M-160120749009	431
245	Pranathi Reddy Kubagiri-160120749010	432
246	Sai Lakshmi Priya Kothacheruvu-160120749011	433
247	Sai Pravallika Gumma-160120749012	434
248	Shriya Bandi-160120749014	435
249	Snigdha Talakoti-160120749015	436
250	Sreshta Reddy Basi Reddy-160120749016	437
251	Sri Meghana Karri-160120749017	438
252	Srikhyati Boppana-160120749018	439
253	Tanya Kolanupaka-160120749019	440

254	Thrisha Kakarla-160120749020	441
255	Vybhavi Bukka-160120749021	442
256	Abhinav Sai Danuguri-160120749022	443
257	Adithya Gururaj-160120749023	444
258	Ashish Chandra M-160120749024	445
259	Bhanu Prasad Paitar-160120749025	446
260	Chinnaiahgari Venkata Viswasreddy Mettupalle-160120749026	447
261	Chinni Krishna Gundaboina-160120749027	448
262	Dheeraj Venu K-160120749029	449
263	Hima Charan Gangula-160120749030	450
264	Irshad Mohammed-160120749031	451
265	Khaja Osman Fareed Shiraazi-160120749032	452
266	Krishna Rishi Kolli-160120749033	454
267	Mahesh Reddy Javvaji-160120749034	455
268	Nivas Reddy Velmula-160120749035	456
269	Palla Mohammad-160120749036	457
270	Prashanth Chowdary Upputuri-160120749037	458
271	Pratham Reddy Enugu-160120749038	459
272	Rajesh Kuturu-160120749039	460
273	Rama Krishna Reddy Madireddy-160120749040	461
274	Sahakar Malleboina-160120749042	462
275	Sai Charan Reddy Vootkuri-160120749043	463
276	Sai Lohith Peddi-160120749044	464
277	Sai Manoj Alladi-160120749045	465
278	Sai Medhansh T-160120749046	466
279	Sai Sathvik Reddy Bontu-160120749047	469
280	Saisuraj Jaligapu-160120749048	471
281	Saketh Reddy Mule-160120749049	473
282	Sangi Reddy Seelam-160120749050	474
283	Shiva Kiran Koninty-160120749051	475
284	Siddharth Balaji P N-160120749052	476
285	Sri Sathvik Koundinya Kalluri-160120749053	479
286	Srinivas Kommineni-160120749054	481
287	Srinivasa Rao Mocharla-160120749055	482
288	Tanish Kavali-160120749056	483
289	Venkat Vikas Reddy D-160120749057	484
290	Vibhavari Sharma Naravarjhula-160120749058	485
291	Vishwanth Barma-160120749059	486
292	Vivek Gopari-160120749060	487
293	Enugula Rajendar-160120749301	488
294	Kashetty Tejashwini-160120749303	489
295	Pentam Venkatesh-160120749304	490
296	Karkam Manisha-160120749305	491

C E R T I F I C A T E

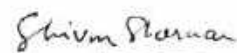
OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

DEEPSIKHA ADIDAM

This is to certify that the above mentioned candidate has successfully completed his/her training in **Cyber Security** from 5th November to 5th December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma
(VP - Human Resources)



Student UIN : 2002672

Certificate no. : RA1713672

CERTIFICATE

OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **DEEPSIKHA ADIDAM** ▶

This is to certify that the above mentioned candidate has successfully completed **Cyber Security** live projects from Artifintel in association with Skillvertex from 5th December 2021 to 5th January 2022

During this internship he/she showed diligence, consistency & determination.

Shivam Sharma

Shivam Sharma
(VP - Human Resources)

C E R T I F I C A T E

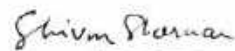
OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

JAHNAVI MANOJ

This is to certify that the above mentioned candidate has successfully completed his/her training in **Cyber Security** from 5th November to 5th December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma
(VP - Human Resources)



Student UIN : 2002675

Certificate no. : RA1713675

CERTIFICATE

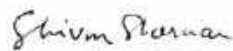
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THIS CERTIFICATE IS PROUDLY PRESENTED TO

M.JAHNAVI REDDY

This is to certify that the above mentioned candidate has successfully completed his/her training in **Cyber Security** from 5th November to 5th December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma
(VP - Human Resources)



Student UIN : 2002698

Certificate no. : RA1713698

CERTIFICATE

OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **JEEVIKA MEKALA** ▶

This is to certify that the above mentioned candidate has successfully completed **Cyber Security** live projects from Artifintel in association with Skillvertex from 5th December 2021 to 5th January 2022

During this internship he/she showed diligence, consistency & determination.

Shivam Sharma

Shivam Sharma
(VP - Human Resources)

CERTIFICATE

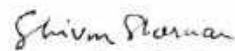
OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

JEEVIKA MEKALA

This is to certify that the above mentioned candidate has successfully completed his/her training in **Cyber Security** from 5th November to 5th December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma
(VP - Human Resources)



Student UIN : 2002673

Certificate no. : RA1713673

C E R T I F I C A T E

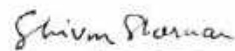
OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **LALASA REDDY JOGADINNERMEDIA** ▶

This is to certify that the above mentioned candidate has successfully completed his/her training in **Cyber Security** from 5th November to 5th December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma
(VP - Human Resources)



Student UIN : 2002669

Certificate no. : RA1713669

C E R T I F I C A T E

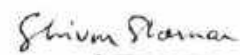
OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **LALASA REDDY JOGADINNERMEEDIA** ▶

This is to certify that the above mentioned candidate has successfully completed **Cyber Security** live projects from Artifintel in association with Skillvertex from 5th December 2021 to 5th January 2022

During this internship he/she showed diligence, consistency & determination.



Shivam Sharma
(VP - Human Resources)

Swecha

Certificate of Internship

This is to certify that

T Manisha

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

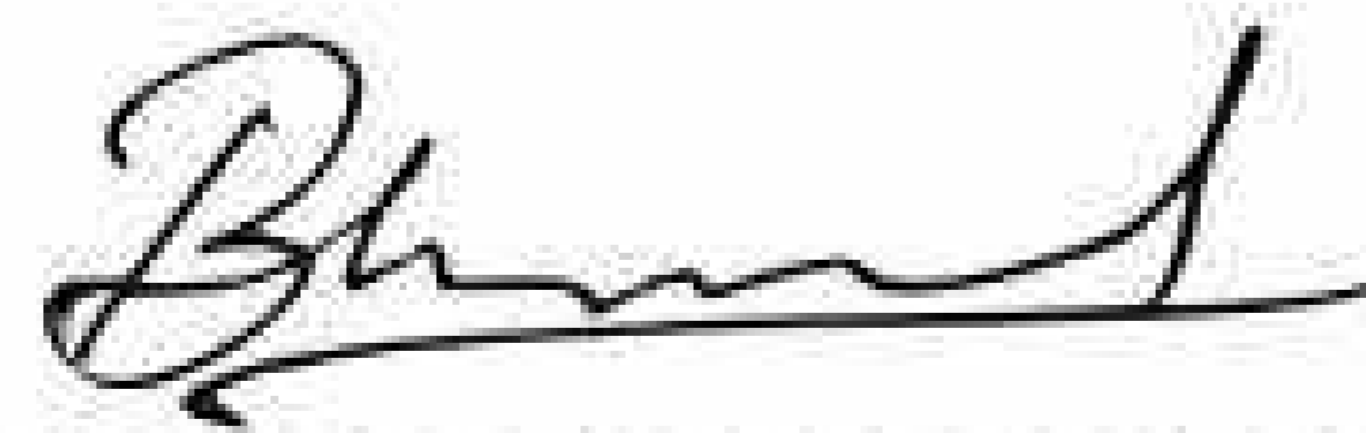
This is to certify that

Meghana Ganapuram

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Nandini Nenavath Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Neha Krishna Karampuri

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



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SWECHA**

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Swecha

Certificate of Internship

This is to certify that

Nikhitha Tubati

from

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Swecha

Certificate of Internship

This is to certify that

sai praveena karnati Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



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Swecha

Certificate of Internship

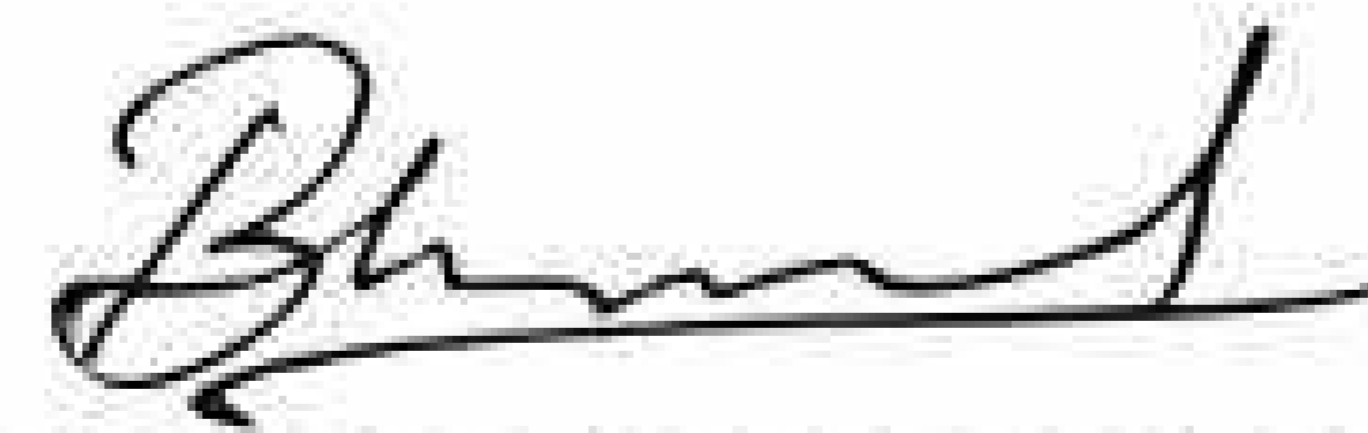
This is to certify that

Satvika Basanamoni

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



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Swecha

Certificate of Internship

This is to certify that

Siddireddy Shirisha

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



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This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS55S24040068

To
ALWAL SOWMIKA
GANGASTHANZ, GOKUL RESIDENCY, NIZAMABAD
MADHAPUR VILLAGE, MAKLOOR MANDAL
NIZAMABAD
TELANGANA - 503003
PH. NO : 9492718166



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

ALWAL SOWMIKA

for successfully completing the course

Programming in C++

with a consolidated score of **78** %



Online Assignments	23.88/25	Programming Exam	14.25/25	Proctored Exam	40/50
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Total number of candidates certified in this course: 336

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Jul-Sep 2021
(8 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur





4 Courses

Introduction to Java

Introduction to Object-Oriented Programming with Java

Object-Oriented Hierarchies in Java

Java Class Library



Jan 22, 2022

Sirigiri Vaishnavi

has successfully completed the online, non-credit Specialization

Core Java

In this Core Java specialization, learners gained the knowledge and skills needed to become an object-oriented programmer using the Java language. In the four courses of this specialization, learners mastered the Java programming language and the packages that constitute its rich set of core libraries. Through many hands-on exercises, learners developed their own Java-based applications using beginner to advanced Java functions.

Evan Bergman

Noel J. Bergman

Noel J. Bergman

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:

coursera.org/verify/specialization/RKP63SFBM25

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S23633563

To
POKALA AADARSH
1-18-60/11/5, MES COLONY, VENKATAPURAM
ALWAL., HYDERABAD, TELANGANA
HYDERABAD
TELANGANA - 500015
PH. NO : 7989285342



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

POKALA AADARSH

for successfully completing the course

Programming in Java

with a consolidated score of **85** %



Online Assignments	24.5/25	Programming Exam	25/25	Proctored Exam	35.25/50
--------------------	---------	------------------	-------	----------------	----------

Total number of candidates certified in this course: 2632

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Jul-Oct 2021
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



C E R T I F I C A T E

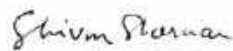
OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

AKULA ADARSH KUMAR

This is to certify that the above mentioned candidate has successfully completed his/her training in Machine Learning from 5th November to 5th December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma
(VP - Human Resources)



Student UIN : 2002562

Certificate no. : RA1713562

C E R T I F I C A T E

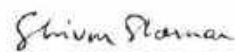
OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **AKULA ADARSH KUMAR** ▶

This is to certify that the above mentioned candidate has successfully completed **Machine Learning** live projects from Artifintel in association with Skillvertex from **5th December 2021 to 5th January 2022**

During this internship he/she showed diligence, consistency & determination.



Shivam Sharma
(VP - Human Resources)

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S23632302

To
AMAN RACHALA
1-8-702/21/2 A BLOCK PADMA COLONY
NEW NALLAKUNTA HYDERABAD 500044
HYDERABAD
TELANGANA - 500044
PH. NO :8331066655



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

AMAN RACHALA

for successfully completing the course

Programming in Java

with a consolidated score of **79** %



Online Assignments	23.85/25	Programming Exam	25/25	Proctored Exam	30.5/50
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Total number of candidates certified in this course: **2649**

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Jul-Oct 2021
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Swecha

Certificate of Internship

This is to certify that

Mohd Ameenuddin Ahmed

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Information Systems Development Course

Integrating Business, IT and IS Competencies

João Alvaro Carvalho, Rui Dinis Sousa, Jorge Oliveira Sá
Information Systems Department, Algoritmi Centre
University of Minho
Guimarães, Portugal
(jac, rds, jos) @ dsi.uminho.pt

Abstract — Information systems development (ISD) is a capstone course in the Information Systems and Technology undergraduate program at School of Engineering, University of Minho, Portugal. ISD is viewed as an organizational change project that aims at improving an organization through the adoption of IT applications.

The course is designed following a project led approach. The project involves describing an organization as a system, describing its information handling activities and proposing a set of IT applications that could be adopted and used.

Students are guided by an ISD methodology that demands the application of previous developed competencies in areas such as: organization theory, accounting, marketing, information systems fundamentals, data bases, software engineering, computer networks and several other IT courses. Together with the ISD course, students are also taking courses on organizational behavior and data-warehousing.

Students are organized into large teams of 10 to 12 members. Several roles are distributed among team members: e.g., team leader, analyst, document officer, technology officer, methodologist, development tools specialist, IT specialist.

Students are suggested a fictional organization in a specific business area. Ideally students should deal with a real organization. As the course is having around 100 students enrolled this is not possible. However it is common that each project team finds an organization in the proposed business area where they go and have actual contact with an organization.

The main outputs of the project include: project plan; organization description including – purpose, environment, main activities, business ontology, main performance indicators; general information systems description using UML; requirements for an IT application; IT architecture. One of the most important steps of the project is to decide on what IT to suggest to the organization. The decision should take into consideration the capability of current IT, the specifics of the business area and its current practices.

Besides the reports, each team makes two public presentations. The first one is to present the organization description making sure business is clearly understood. The final one is to present the solution in terms of information systems and IT architecture. These presentations are attended by industry guests that focus

their attention on the students' communication skills from the perspective of a manager.

The evaluation of students' performance is based on: reports corresponding to the outputs mentioned above; public presentations; weekly assessments of the teams' progress. The final mark attributed to each team (a numerical value from 0 to 20, where above 10 is a pass) can be re-distributed among team members, by themselves, in order to account for different levels of commitment or effort within the team. Several other rules are set in order to promote professional behavior.

Keywords – IS professionals; capstone course; ISD process; engIS methodology; project led approach; large teams.

I. INTRODUCTION – EDUCATION OF IS PROFESSIONALS

The evolution of computers and computing led to the emergence of several different professions related to the design, implementation and deployment of computer and computing artifacts. The Computing Curricula 2005 [1] distinguishes among such five different professional profiles: computer engineering, computer science, software engineering, information technology and information systems. This article addresses the last of these – information systems (IS).

The education of IS professionals has been much debated (early discussions can be found in [2], [3], [4] or [5]). Besides several individual contributions, it is interesting to focus on collaborative efforts to produce a set of recommendations for IS programs both at undergraduate and graduate levels. Such efforts led to reports such as IS 1995 [6], IS 2002 [7] and MSIS 2006 [8]. A new proposal for the IS undergraduate curriculum is being discussed and should become public early this year (2010) [9].

Based on these recommendations (or, at least, somewhat related to them), many IS programs can be found all over the world. At the AIS site, a list of such programs can be consulted (<http://apps.aisnet.org/isprograms>).

This article addresses a course on information systems development taught at the 3rd (last) year of an undergraduate degree program on information systems at School of Engineering, University of Minho, Portugal. The learning outcomes of this course include:

- Describe and explain the information systems development (ISD) process”;
- Participate in an ISD project carried out in a laboratory setting, performing most activities of the process;
- Describe and explain the information systems development (ISD) process;
- Distinguish between ISD and software development, and between ISD and other organization intervention activities;
- Compare the proposed methodology for ISD with alternative methodologies from literature or practice.

In order to achieve these outcomes, the course was designed according to a project-based approach where students are faced with a fictional organization in whose information system they have to intervene.

II. INFORMATION SYSTEMS DEVELOPMENT

The information systems development (ISD) is a key capability of IS professionals – improving organizations through the adoption of information technology (IT). ISD corresponds to a combination of several of the IS high-level capabilities as described in the collaborative document sponsored by ACM and AIS [9] that is leading to a proposal for an undergraduate curriculum for information systems. Those capabilities include: improving organizational processes, exploiting opportunities created by technology innovations, understanding and addressing information requirements, identifying and evaluating solution and sourcing alternatives.

ISD should not be confused with software development. Software development aims at producing an IT product. It involves setting the requirements, designing, implementing, testing and deploying the IT product. ISD has a broader scope as it aims at improving an organization through the adoption and use of information technology (IT) applications. An ISD methodology suggested to students at University of Minho – engIS – encompasses the following main activities:

- A – understand the organization: the aim of this activity is to produce a systemic model of the organization; the model should address: purpose (a statement of what the organization is supposed to do), environment, activities (main organization activities; a structure of activities such as Porter’s value chain is suggested), manipulated objects (inputs and outputs of the organization’ activities) and organs (people and machines that execute the activities; the model also addresses the organization’s ontology (main business concepts and their associations) and a basic set of performance indicators (it is suggested that the performance indicators are organized according to the balanced score card structure); the outcome of this activity is a report with a description of the organization from a systemic perspective;
- B – understand the organization’s information system: based on the systemic description of the organization developed in activity A, a description of the

organization’s information systems is produced; this description addresses the organizational activities that deal with information; the description is represented with UML – unified modeling language;

- C – define changes to be made to the organization’s information system: the organization’s information system is reviewed and changes are proposed; ideas for how to use IT applications are discussed; requirements for new IT applications are defined;
- D – obtain IT products to be used in the organization: the purpose of this activity is to obtain the applications whose requirements have been defined in activity C; four different strategies can be used to obtain the IT applications: (i) a software development process carried out by an in house group; (ii) to buy an off-the-shelf product from an adequate supplier; (iii) to hire an external software house to develop the application according to the defined requirements; (iv) to access the application on a service basis from an adequate service supplier;
- E – execute the proposed changes: this activity includes: to implement the changes planned in activity C; prepare the organization for new ways of working; installation and configuration of the IT applications.

To get involved in an ISD project and be able to participate in the activities described above, a large set of professional skills and competencies is necessary. These skills and competencies build upon knowledge related to:

- Organizations and markets – general understanding of organizations and markets;
- Operations and management of organizations – understanding of the major organizational activities both at operational and managerial levels;
- Computers and information technology – understanding the way computers operate and how they can be linked in communication networks; understand how computers and other devices can be connected in order to enable information collection, storage, representation; distinguish among different types of IT applications that can be used to execute/support work in organizations (e.g., data processing, management information, decision support, software); understand the role of platforms that enable IT applications (e.g., databases; workflow management systems, data warehousing);
- Information technology in organizations – understanding the roles played by IT; IT and business opportunities and business models; IT and strategic planning; IT in managerial activities; IT in operations; understand how the success of IT in organizations can be assessed;
- Socio-technical organizational change – understanding the problems of organizational change that involve both people and technology;

- ISD methods – understand ISD methods; use methods, techniques and tools; plan an ISD intervention combining appropriate ISD methods, techniques and tools; assess an ISD process;
- Software development – building software products to execute/support work in organizations; applying methods, techniques and tools for software development; build IT applications of different types, using the platforms mentioned in the previous point;
- Project planning and management – planning a project and controlling its execution;
- Systems thinking and problem solving – thinking about complex active objects; representing systemic models of such objects; using those models to solve problems (either on building IT artifacts or planning changes in organizations).

Besides science and technology skills and competencies, ISD is also demanding in what concerns soft skills, namely:

- Inter-personal communication – listening to others; explaining own ideas; making presentations, writing reports;
- Inter-personal relationships – collaborate with others; team motivation; leadership;
- Professionalism issues – ethics; assess the impact of the work being carried out on people, organizations or society; reflexive attitude towards professional knowledge and action; permanent pursuit of good practices.

It should be recognized that it is not easy to train young IS professionals capable of exhibiting the combined competencies just described. This corresponds to the ability of integrating different subjects and developing a comprehensive perspective of IT in organizations. And besides the intrinsic difficulty of mastering the different subjects in an integrated way, the absence of live experience in an organization of the students adds further difficulty.

III. THE ISD COURSE AT UNIVERSITY OF MINHO

The portfolio of undergraduate programs in computing at the University of Minho offers several education programs in the area of computing, corresponding to several of the profiles presented in the Computing Curricula 2005 report [1]. Among them, the Information Systems and Technology (IST) program focus on the education of IS professionals. In its curriculum, the IST program includes courses that address the areas mentioned above.

The Information Systems Development course is a capstone course. It is taught in the first semester of the 3rd (last) year. It builds upon several other competencies developed along the program. The learning outcomes of this course include:

- Describe and explain the information systems development (ISD) process;

- Participate in a ISD project carried out in a laboratory setting, performing most activities of the process;
- Distinguish between ISD and software development, and between ISD and other organization intervention activities;
- Compare the proposed methodology for ISD with alternative methodologies from literature or practice.

In what concerns the contents, the course covers:

- The information systems development process: conceptual framework; ISD process and other intervention activities; ISD and software development;
- The engIS methodology;
- Social and political aspects of the ISD;
- Professional competencies for the ISD process;
- engIS and other ISD methodologies;
- Representation of information systems: UML and other representation packages; dealing with complexity in information systems representation;
- Techniques for the ISD inquiry process.

Considering the learning outcomes and the competencies and skills that are aimed, the course has been designed following a project-based approach. A project running along the whole semester is a central activity in the course. Each student is expected to dedicate 10 hours per week to the project. The course corresponds to 10 credits (ECTS – European Credit Transfer System) which is twice the common weight of a course.

IV. THE PROJECT WITHIN THE ISD COURSE

A major feature of the course is the project. The project attempts to simulate an organizational situation that a consultancy team will address in order to improve through the adoption of information technology. Ideally, students would be confronted with a real organizational situation. However, considering the size of the class this has been ruled out. The class size typically ranges from 80 to 110. With such size, too many simultaneous cases would be necessary. So, each year a particular business is proposed to students. A notary, a hospital, a university or a rent-a-car are some of the business examples that have already been used. In order to bring “reality” to the simulation, students are encouraged to contact a real organization in the business area that has been chosen. In these real organizations, students have the possibility of experiencing some of the aspects and difficulties of the inquiry process associated to the ISD.

The project doesn’t cover the whole ISD process. Only activities A, B and C of the engIS process model. However, students are requested to consider in their work the plan for all the activities. Activities D and E are included in the plan but not actually executed.

Students are organized in teams of 10 to 12. The relatively large size of the teams leads to a situation where students have

to interrelate to with a broader set of colleagues and to carry out work involving a high number of interrelations. Team size is also related with work distribution and coordination. Teams are asked to assign roles to different members. Among the suggested roles the following are the most important:

- Team leader – general work coordination; team motivation; record (diary) keeping;
- Project manager – planning a project and controlling its execution;
- Document officer – keeper of models and other documents concerning the project;
- Methodologist – specialist on the methods and techniques being used; should assure that all members of the team are well aware of the procedures to be carried out;
- Development tools specialist – should try in advance the tools to be used;
- System analyst – carries out general work related with the inquiry process;
- Designer – participates in planning the future of the organization or in the design of computing artifacts;
- Database administrator – responsible for organization’s databases strategy including design and implementation if necessary

Project results are presented in reports and presentations. Three main reports are produced: (i) a project plan, produced after the second week; (ii) an interim report delivered on the sixth week and (iii) a final report. Presentations to the faculty, colleagues and guests from industry are made just after the delivery of the reports.

Autonomy and responsibility are key elements in the project. Teams are granted with a high level of autonomy in the sense they can plan their work, they can select methods, techniques and tools. A final mark is attributed to the work produced based on an assessment of the reports and presentations. Regular weekly meeting with faculty are also an input that contributes to assess the way work is being carried out. Based on team’s self assessment, the mark is distributed among team members, reflecting their involvement in the project work.

V. REPORTS OF STUDENTS’ EXPERIENCE IN THE ISD COURSE

Looking through the student testimonials in the final project reports, it is undeniable the importance they recognize to the ISD course in their education when taken under the already explained project-led learning approach (quotations below have been translated from their original in Portuguese in the reports from the past two school years, 2008/09 and 2009/10):

- “The experience we got from this project turned out to be very valuable giving us a clear picture of what may be indeed an information systems development process in reality.” (Team 2, 2008/09);

- “I feel quite enriched with this project that got me ready in several ways for market realities.” (Pedro, Team 3, 2008/09);
- “All team members consider that this project was crucial for our education and will be very valuable for our professional future.” (Team 4, 2009/10);
- “Having been a project quite enriching at several levels, I will highlight the fact that was the closest I came across to market realities so far in my studies.” (Margarida, Team 2, 2009/10).

This is not to say that students didn’t experience any difficulties such as managing the project complexity and dealing with a large team size in a working context as close as possible to reality:

- “The entire project, due to its complexity, presented some obstacles. First, how to manage a large team since having to coordinate the work of twelve members in a team was a brand new experience. Second, how to organize several reports, what to include, how to justify, how to develop them. Finally, how to deliver two public presentations, if not a major obstacle, at least an important milestone to prepare for and overcome successfully.” (Team 1, 2009/10);
- “I would highlight the inexperience in working in such large teams, the difficulty in assigning tasks and reaching team consensus while having to deal with so many perspectives.” (Alexandre, Team 3, 2009/10);
- “While working in the project, the team faced difficulties in several areas, namely, in understanding the organization. This is in part explained by the lack of know-how regarding organizational realities (...). Other difficulties came up while designing the IT architecture (...). It should be stressed that quite some effort has been put to manage the project according to what was initially planned.” (Team 2, 2008/09);
- “From the moment we really understood which type of organization we had in hands, we started describing the information system using UML while doing a market research on the software packages that could be used in our organization to develop the IT architecture. This was clearly one of the most laborious and difficult stages in the project since none of us had great experience in this type of tasks. Moreover we were getting little or inconclusive information from organizations we were getting in touch with.” (Team 4, 2008/09);
- “There were manifest difficulties in understanding and describing the information system because we were used to model a software system, not an information system.” (Team 5, 2008/09);
- “We had great difficulties in understanding the organization. It was clear our lack of know-how on how an organization such as a rent-a-car was working,” (Team 4, 2009/10).

In spite of all the above mentioned difficulties, and also because of them, students ended up giving testimonials about important learning outcomes that they have reached:

- “We have developed a set of skills in the analysis, evaluation and solving of information systems problems that we were clearly missing.” (Team 1, 2009/10);
- “This project has allowed me to get the knowledge on how to develop information systems while applying knowledge from other courses.” (Fernando, Team 6, 2009/10);
- “This has been a surprising project since we have been applying what we have learned in other courses over the past years.” (João, Team 1, 2009/10);
- “This project allowed us to be involved in a situation requiring the use of methods, techniques and tools while using knowledge from several other courses in the economics and business areas.” (Alexandre, Team 2, 2008/09);
- “In practical terms, I was able to increase my knowledge. Although I have learned many things in other courses, I was never able to put them into practice. I should stress that I developed also some skills on how to organize work, work in teams, manage time, understand and solve organizational problems.” (Margarida, Team 2, 2009/10);
- “Working in a team with twelve people developed my ability to manage relationships, led me to take on new working responsibilities and carry out work in an autonomous way. I think I am bet prepared to enter the job market.” (Rui, Team 2, 2009/10);
- “The project with a large team was quite a challenge in work and relationships management getting us ready for the job market. We were able to apply knowledge already acquired in other courses as well as new knowledge from the course itself, in a practical context, leading to a knowledge consolidation that broadens our working options in the market.” (Miguel, 2009/10);
- “I have been able to acquire new knowledge that will be fundamental for my professional future. In addition I was able to expand knowledge I acquired in past courses such as Information Systems Fundamentals, Software Methodologies and Process, or Computers Networks.” (Tânia, Team 4, 2009/10);
- “We had come to the conclusion of the importance of having an approach for information systems development as the one suggested by engIS since we were able to develop an information system to improve the work in the organization.” (Team 3, 2008/09).

Summing up, having dealt with the difficulties inherent to information systems development projects, the students make an overall positive evaluation of the ISD course:

- “Working in this project made us able to intervene in organizations to develop their information systems taking advantage of information technologies in order to improve organizational performance.”(Team 3, 2008/09);
- “To summarize, it should be highlighted that this project has turned out quite valuable allowing us to deal with concepts and techniques in the information systems arena that will be of great importance in our professional future. Our team makes an overall positive evaluation of the project.” (Team 4, 2008/09);
- “I will emphasize the experience acquired by working in big teams in a close contact with organizational realities while still in an academic environment.” (Bruno, Team 3, 2009/10);
- “This project was essential for acquiring new competencies as well as knowledge that will be needed in the future, either academic or professional. Many difficulties were experienced but once they were overcome, we got substantial gains in technical abilities and knowledge that will be valuable in future works.” (Liliana, Team 4, 2008/09);
- “ISD was a course that got me specially motivated allowing a healthy competition among teams in a simulation of what we will have to face in a professional environment. Public presentations in a formal setting having the presence of industry guests contributed decisively for that simulation.” (João, Team 5, 2009/10);
- “As it was a project quite “real”, that gave me a big motivation to enroll in the course and participate in the project in an extremely active way.” (Sérgio, Team 5. 2009/10);
- “It was a marathon, although very tempting, the intervention of a team in an organization to improve its performance using information technologies. It was a project that led us to use collaborative tools, to engage in team debates and apply new knowledge in information systems development.” (Guilherme, Team 6, 2009/10);
- “I should stress the importance and high sense of responsibility that we take upon during the semester. It was not an academic project without substance, but one that had to be deeply worked to show real application possibilities.”(Diogo, Team 1, 2009/10);
- “The project was quite rewarding and enriching allowing the consolidation of past acquired knowledge in a simulation of what could be a future working situation to get me better prepared for the job market. This project helped me also to develop team working abilities since I had to deal with very different people unknown so far to me” (Raquel, Team 2, 2009/10).

V. CONCLUSION

The ISD project started to be used in the early 1990s. Since then it has evolved, incorporating lessons learned from previous editions and contributions from talks and seminars on project led education, a teaching approach fostered in the School of Engineering at University of Minho.

Licenciatura in Information Systems and Technology – the IS program where the ISD course is taught – suffered in recent years major revisions related to the Bologna process. This led to some changes in the scope of the ISD course and its project. One of the main limitations that is being recognized is that students do not have time to get involved in the implementation of the IT products they suggest in order to improve the organizational situation (students execute only activities A, B and C of the methodological approach they follow, cf. section II). Therefore, adjustments are being prepared to allow students to focus more on developing implementation skills.

The experience obtained so far with the ISD project supports the conclusion of the important role that project led education can play in the education of IS professionals. The project is particularly important when recognizing that IS professionals are supposed to integrated knowledge and competencies from areas such as business, management and information technology and that this integration should happen in a problem solving environment that involves a high degree of human interaction.

VI. REFERENCES

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Information Systems Department
Engineering School
University of Minho, Portugal

Information Systems Development Course

Integrating Business, IT and IS Competencies

*João Álvaro Carvalho, Rui Dinis Sousa (presenter) and Jorge
Oliveira Sá
University of Minho, Portugal*

Transforming Engineering Education:
Creating Interdisciplinary Skills for Complex Global Environments,
Dublin, Ireland, 6-9 April 2010

Information Systems Development Course: Integrating Business, IT and IS Competencies

Agenda

- I. Education of IS Professionals
- II. Information Systems Development (ISD)
- III. ISD course at University of Minho, Portugal
- IV. ISD Project
- V. Student Testimonials
- VI. Conclusions



IS Education	ISD	ISD Course	ISD Project	Testimonials	Conclusions
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Professional Profiles

- Computer Engineering
- Computer Science
- Software Engineering
- Information Technology
- **Information Systems**

Computing Curricula, 2005



IS Education

ISD

ISD Course

ISD Project

Testimonials

Conclusions

Information Systems Development

- Part of the Information Systems and Technology 3-year undergraduate program at School of Engineering
- Project-based approach
- Organizational change project to improve an organization through IT applications adoption
- Methodological framework to provide guidance: engIS
- Fictional organization in a specific business area that usually involves close contacts with real organizations in the same area



IS Education

ISD

ISD Course

ISD Project

Testimonials

Conclusions

Learning Outcomes

- Describe and explain the information systems development (ISD) process;
- Participate in an ISD project carried out in a laboratory setting, performing most activities of the process;
- Describe and explain the information systems development (ISD) process;
- Distinguish between ISD and software development, and between ISD and other organization intervention activities;
- Compare the proposed methodology for ISD with alternative methodologies from literature or practice.



IS Education

ISD

ISD Course

ISD Project

Testimonials

Conclusions

ISD vs. Software Development

- Software Development
 - setting the requirements, designing, implementing, testing and deploying Information Technology (IT) applications
- Information Systems Development
 - improving an organization through the adoption and use of information technology (IT) applications

A broader scope



IS Education

ISD

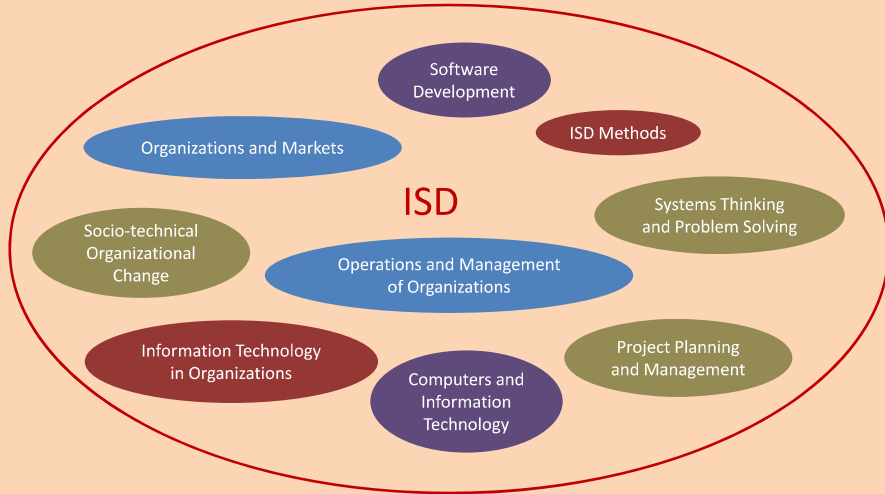
ISD Course

ISD Project

Testimonials

Conclusions

Integrating Competencies



IS Education	ISD	ISD Course	ISD Project	Testimonials	Conclusions
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Soft Skills



IS Education	ISD	ISD Course	ISD Project	Testimonials	Conclusions
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Capstone Course

- Last year, 1st semester
- Demanding the application of previous developed competencies, e.g.
 - Organizational theory
 - Accounting
 - Marketing
 - Information Systems Fundamentals
 - Databases
 - Software Engineering
 - Computer Networks



IS Education	ISD	ISD Course	ISD Project	Testimonials	Conclusions
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Scientific Area	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6
Maths and Quantitative Methods	Fundamentals of Discrete Mathematics (4)	Fundamentals of Linear Algebra (4)	Topics in Mathematical Analysis (5)	Operational Research (5) Topic in Statistics (5)	Simulation (6)	
	Introduction to Economics (3)	Principles of Organisation and Management (5)	Accounting (4)	Marketing (5)	Organizational Behaviour (5) Logistics and Production Management (5)	Financial Management (5)
Information Systems	Information Systems and Technologies (6)	Databases (6)	Fundamentals of Information Systems (5)		Management Support Technologies (5)	Information Services (5) Integration of Integrated Systems (10)
	Information Technology	Software Process and Methodologies (6)		Software Development (10)	Knowledge Based Systems (5)	
Information Technology	Foundations of Computer Programming (8)	Programming Concepts (8)	Web Programming (8)	Distributed Systems (5)		
	Computing Systems (4)	Operating Systems (5)	Computer Networks (5)			



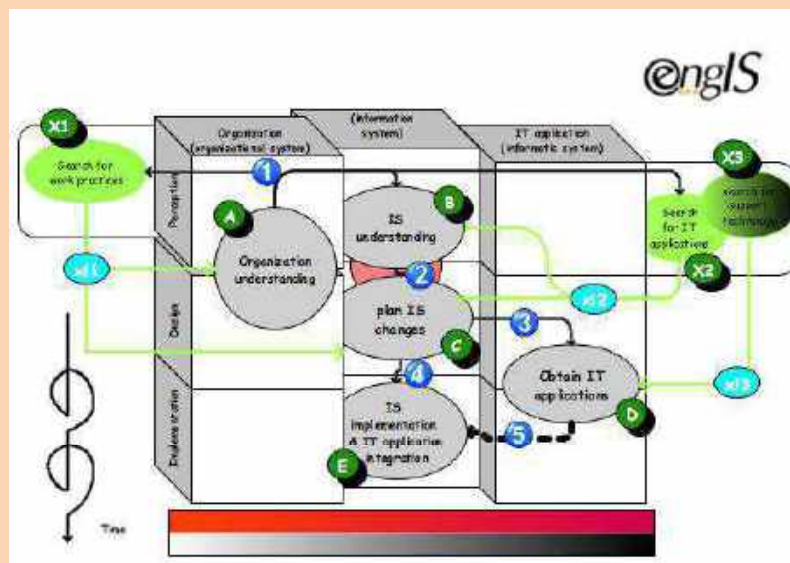
IS Education	ISD	ISD Course	ISD Project	Testimonials	Conclusions
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ISD Methodology: engIS

- A. understand the organization
- B. understand the organization's information system
- C. define changes to be made to the organization's information system
- D. obtain IT products to be used in the organization
- E. execute the proposed changes



IS Education	ISD	ISD Course	ISD Project	Testimonials	Conclusions
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IS Education	ISD	ISD Course	ISD Project	Testimonials	Conclusions
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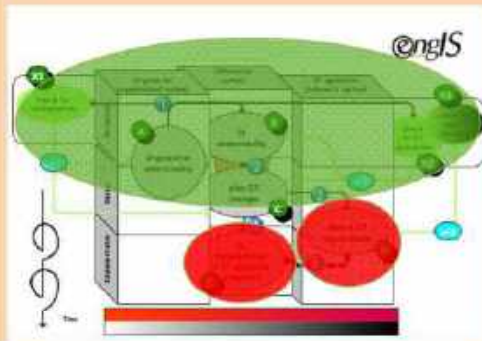
Team Organization

- Around 100 students enrolled
- Large teams (10 to 12 students)
- Roles:
 - Team Leader
 - Project Manager
 - Document Officer
 - Systems Analyst
 - Methodologist
 - Development Tools Specialist
 - Designer
 - IT Specialist
 - ...



IS Education ISD ISD Course **ISD Project** Testimonials Conclusions

Project scope



- Organization understanding
- IS understanding
- Plan IS changes
- Included in the project plan but not actually executed
 - Obtain IT applications
 - IS implementation & IT application integration



IS Education ISD ISD Course **ISD Project** Testimonials Conclusions

Project Main Outputs

- Organization description
- Information systems description
- IT application requirements
- IT architecture
- Public presentations
 - Initial: Organization description
 - Final: Information Systems and Technology solutions



IS Education

ISD

ISD Course

ISD Project

Testimonials

Conclusions

Project evaluation

- Weekly assessment of team's progress
- Periodic written reports (five)
- Public presentations (two)
 - External evaluation (industry guests):
 - Particular emphasis on communicative skills, demonstration of organization understanding and business value of proposed solutions, ...
- YouTube video
- Redistribution of team final mark among team members



IS Education

ISD

ISD Course

ISD Project

Testimonials

Conclusions

Highlights: sense of reality

- “The experience we got from this project turned out to be very valuable giving us a **clear picture** of what may be indeed an **information systems development process in reality.**” (Team 2, 2008/09);
- “Having been a project quite enriching at several levels, I will highlight the fact that was the **closest** I came **across to market realities** so far in my studies.” (Margarida, Team 2, 2009/10).



IS Education | ISD | ISD Course | ISD Project | **Testimonials** | Conclusions

Challenges: large teams, reports and presentations

- “The entire project, due to its **complexity**, presented some obstacles. First, **how to manage a large team** since having to coordinate the work of twelve members in a team was a brand new experience. Second, **how to organize several reports**, what to include, how to justify, how to develop them. Finally, **how to deliver two public presentations**, if not a major obstacle, at least an important milestone to prepare for and overcome successfully.” (Team 1, 2009/10);



IS Education | ISD | ISD Course | ISD Project | **Testimonials** | Conclusions

Challenges: understanding organizations

- “While working in the project, the team faced difficulties in several areas, namely, in **understanding the organization**. This is in part explained by the **lack of know-how regarding organizational realities** (...). Other difficulties came up while **designing the IT architecture** (...). It should be stressed that quite some effort has been put to **manage the project according to what was initially planned.**” (Team 2, 2008/09);



IS Education	ISD	ISD Course	ISD Project	Testimonials	Conclusions
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Challenges: understanding IS, team working

- “There were manifest difficulties in **understanding and describing the information system** because we were used to model a software system, not an information system.” (Team 5, 2008/09);
- “I would highlight the **inexperience in working in such large teams**, the difficulty in **assigning tasks** and **reaching team consensus** while having to deal with so many perspectives.” (Alexandre, Team 3, 2009/10);



IS Education	ISD	ISD Course	ISD Project	Testimonials	Conclusions
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Outcomes: integrated competencies

- “This project has allowed me to get the knowledge on how to develop information systems **while applying knowledge from other courses.**” (Fernando, Team 6, 2009/10);
- “This has been a **surprising** project since **we have been applying what we have learned in other courses** over the past years.” (João, Team 1, 2009/10);



IS Education | ISD | ISD Course | ISD Project | **Testimonials** | Conclusions

Outcomes: integrated competencies

- “This project allowed us to be involved in a situation requiring the use of methods, techniques and tools while **using knowledge from several other courses in the economics and business areas.**” (Alexandre, Team 2, 2008/09);
- “Although I have **learned** many things **in other courses**, I was **never able to put them into practice.**” (Margarida, Team 2, 2009/10);



IS Education | ISD | ISD Course | ISD Project | **Testimonials** | Conclusions

Outcomes: developed soft skills

- “I should stress that I developed also some skills on how to **organize work, work in teams, manage time, understand and solve organizational problems.**” (Margarida, Team 2, 2009/10);
- “Working in a team with twelve people developed my ability to **manage relationships**, led me to take on new working responsibilities and **carry out work in an autonomous way**. I think I am bet prepared to enter the job market.” (Rui, Team 2, 2009/10);



IS Education	ISD	ISD Course	ISD Project	Testimonials	Conclusions
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Outcomes: team working

- “I will emphasize the experience acquired by **working in big teams in a close contact with organizational realities** while still in an academic environment.” (Bruno, Team 3, 2009/10);
- “This project helped me also to **develop team working abilities** since I had to deal with very different people unknown so far to me” (Raquel, Team 2, 2009/10).



IS Education	ISD	ISD Course	ISD Project	Testimonials	Conclusions
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Developed competencies

- “Working in this project made us **able to intervene in organizations** to develop their information systems **taking advantage of information technologies** in order to improve organizational performance.”(Team 3, 2008/09);
- “To summarize, it should be highlighted that this project has turned out quite valuable **allowing us to deal with concepts and techniques in the information systems arena** that will be of great importance in our professional future. Our team makes an overall positive evaluation of the project.” (Team 4, 2008/09);



IS Education	ISD	ISD Course	ISD Project	Testimonials	Conclusions
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Developed competencies

- “It was a project that led us **to use collaborative tools, to engage in team debates** and **apply new knowledge in information systems development.**” (Guilherme, Team 6, 2009/10);
- “This project was essential for **acquiring new competencies** as well as knowledge that will be needed in the future, either academic or professional. Many difficulties were experienced but once they were overcome, we got substantial **gains in technical abilities and knowledge** that will be valuable in future works.” (Liliana, Team 4, 2008/09);



IS Education	ISD	ISD Course	ISD Project	Testimonials	Conclusions
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Conclusions

- The importance of project led approach in the education of IS professionals
 - To allow for the integration of competencies from different domains, namely, business and information technology
 - To allow for the development of soft skills in problem solving environments, namely, how to manage time, how to organize work with and from multiple sources, how to manage conflicts and reach consensus.



IS Education

ISD

ISD Course

ISD Project

Testimonials

Conclusions

Conclusions Cont'd

- The importance of project led approach in the education of IS professionals **in cooperation with industry**
 - To allow for the development of communicative skills and argumentation skills on how to show the value for the business of the proposed solution



IS Education

ISD

ISD Course

ISD Project

Testimonials

Conclusions

Swecha

Certificate of Internship

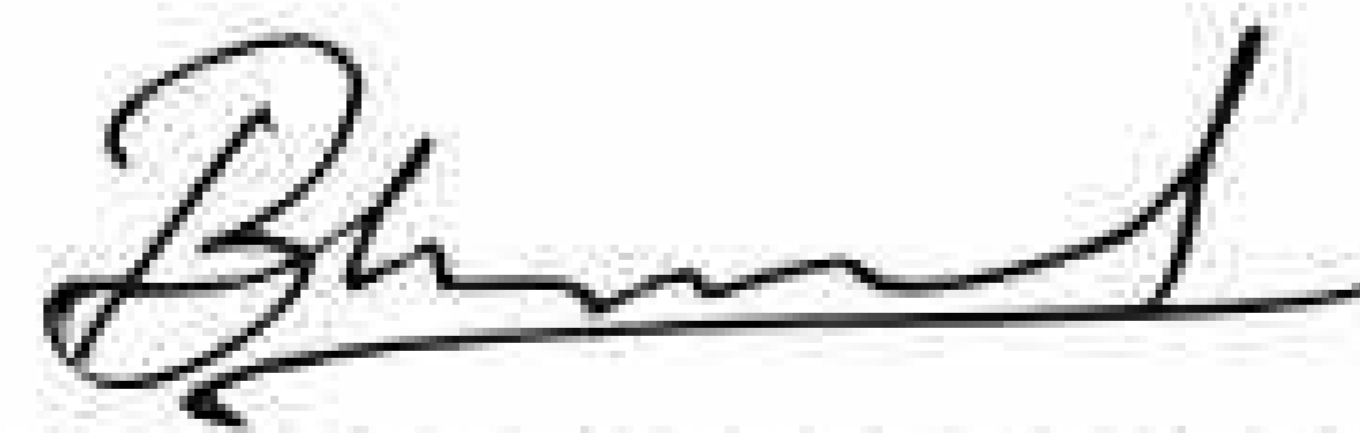
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BHANUTEJA VITTALAPURAM

from

Chaitanya Bharathi Institute of Technology

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**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

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from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



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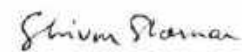
OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **CHETAN PANDE** ▶

This is to certify that the above mentioned candidate has successfully completed **Machine Learning** live projects from Artifintel in association with Skillvertex from **5th December 2021 to 5th January 2022**

During this internship he/she showed diligence, consistency & determination.



Shivam Sharma
(VP - Human Resources)

CERTIFICATE

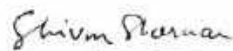
OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

CHETAN PANDE

This is to certify that the above mentioned candidate has successfully completed his/her training in Machine Learning from 5th November to 5th December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma
(VP - Human Resources)



Student UIN : 2002525

Certificate no. : RA1713525

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Roll No: NPTEL21CS56S23633802

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B DHANUSH
FLAT 401 4TH FLOOR PRUDHVI APARTMENTS
2-2-24 AZIZ BAGH DD COLONY NEAR OU
HYDERABAD
TELANGANA - 500013
PH. NO :8978554085



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

B DHANUSH

for successfully completing the course

Programming in Java

with a consolidated score of **75** %



Online Assignments	23.69/25	Programming Exam	25/25	Proctored Exam	25.92/50
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Total number of candidates certified in this course: **2649**

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Jul-Oct 2021
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



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DHRUV SAXENA
7-1-277/93/5 APHB NO 372/C LIGH
SR NAGAR, NEAR BK GUDA PARK
HYDERABAD
TELANGANA - 500038
PH. NO :8978383634



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

DHRUV SAXENA

for successfully completing the course

Programming in Java



with a consolidated score of **80** %

Online Assignments	24.63/25	Programming Exam	25/25	Proctored Exam	30/50
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Total number of candidates certified in this course: 2632

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Jul-Oct 2021
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



CERTIFICATE

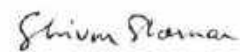
OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **NEDUNURI GANESH** ▶

This is to certify that the above mentioned candidate has successfully completed **Machine Learning** live projects from Artifintel in association with Skillvertex from **5th December 2021 to 5th January 2022**

During this internship he/she showed diligence, consistency & determination.



Shivam Sharma
(VP - Human Resources)



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)

Kokapet (Village), Gandipet, Hyderabad, Telangana-500075. www.cbit.ac.in



COMMITTED TO
RESEARCH,
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EDUCATION

43
years

CERTIFICATE OF PARTICIPATION

This is to certify that

Gokul Chinthalapudi

has actively participated in the virtual event

"CBIT Hacktoberfest Hackathon 2021" held on 29-30th October, 2021

Organized by



Presented by



In Association with



Dr. P. Ravinder Reddy
Principal, CBIT

Dr. Y. Ramadevi
CSE HOD, CBIT

Mr. R. Srikanth
Incharge, COSC

C E R T I F I C A T E

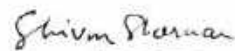
OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

CH GOKUL

This is to certify that the above mentioned candidate has successfully completed his/her training in Machine Learning from 5th November to 5th December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma
(VP - Human Resources)



Student UIN : 2002533

Certificate no. : RA1713533

CERTIFICATE

OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **CH GOKUL** ▶

This is to certify that the above mentioned candidate has successfully completed **Machine Learning** live projects from Artifintel in association with Skillvertex from **5th December 2021 to 5th January 2022**

During this internship he/she showed diligence, consistency & determination.

Shivam Sharma

Shivam Sharma
(VP - Human Resources)

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Roll No: NPTEL21CS56S13633258

To
GOPAL MATCHA
G7, SURYA CLASSIC, PLOT NUMBER 27 & 34
PRAGATHI NAGAR
HYDERABAD
TELANGANA - 500090
PH. NO :9848039729



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



GOPAL MATCHA

This certificate is awarded to

GOPAL MATCHA

for successfully completing the course

Programming in Java

with a consolidated score of **82** %



Online Assignments	24.28/25	Programming Exam	25/25	Proctored Exam	33/50
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Total number of candidates certified in this course: 2632

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Jul-Oct 2021
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



CERTIFICATE

OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **GOPAL MATCHA** ▶

This is to certify that the above mentioned candidate has successfully completed **Cyber Security** live projects from Artifintel in association with Skillvertex from 5th December 2021 to 5th January 2022

During this internship he/she showed diligence, consistency & determination.

Shivam Sharma

Shivam Sharma
(VP - Human Resources)

Swecha

Certificate of Internship

This is to certify that

Likith Reddy Irigela Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Mahesh Kumar Kummari

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

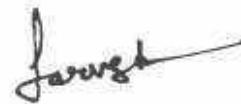
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Madhava Reddy Colony, Gachibowli, Telangana 500032

Certificate of Training

Ch Pavan Harshit

from CBIT has successfully completed a 6-week online training on **Machine Learning**. The training consisted of Introduction to Machine Learning, Data, Introduction to Python, Data Exploration and Pre-processing, Linear Regression, Introduction to Dimensionality Reduction, Logistic Regression, Decision Tree, Ensemble Models, and Clustering (Unsupervised Learning) modules.

We wish Ch all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2021-11-21

Certificate no. : 5E4B6D37-62D7-227D-D29B-B6B9BAFFE4A1

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

C E R T I F I C A T E

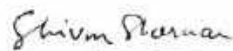
OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

PHILIP GODALA

This is to certify that the above mentioned candidate has successfully completed his/her training in Artificial Intelligence from 5th November to 5th December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma
(VP - Human Resources)



Student UIN : 2002934

Certificate no. : RA1713934

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13630246

To
PRANAV REDDY ASIREDDY
9-76/23 STREET NO 1,SV NAGAR,NAGARAM(V)
KEESARA(M),MEDCHAL DIST
HYDERABAD
TELANGANA - 500083
PH. NO :6305569703



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

PRANAV REDDY ASIREDDY

for successfully completing the course

Programming in Java



with a consolidated score of **84** %

Online Assignments	24.63/25	Programming Exam	25/25	Proctored Exam	34.5/50
--------------------	----------	------------------	-------	----------------	---------

Total number of candidates certified in this course: 2632

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Jul-Oct 2021
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



CERTIFICATE

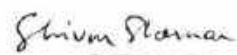
OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **PRANAV REDDY ASIREDDY** ▶

This is to certify that the above mentioned candidate has successfully completed **Cyber Security** live projects from Artifintel in association with Skillvertex from 5th December 2021 to 5th January 2022

During this internship he/she showed diligence, consistency & determination.



Shivam Sharma
(VP - Human Resources)

C E R T I F I C A T E

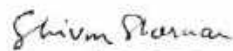
OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

PRATHAM REDDY V

This is to certify that the above mentioned candidate has successfully completed his/her training in **Cyber Security** from 5th November to 5th December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma
(VP - Human Resources)



Student UIN : 2002670

Certificate no. : RA1713670

C E R T I F I C A T E

OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **PRATHAM REDDY V** ▶

This is to certify that the above mentioned candidate has successfully completed **Cyber Security** live projects from Artifintel in association with Skillvertex from 5th December 2021 to 5th January 2022

During this internship he/she showed diligence, consistency & determination.

Shivam Sharma

Shivam Sharma
(VP - Human Resources)



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)

Kokapet (Village), Gandipet, Hyderabad, Telangana-500075. www.cbit.ac.in



COMMITTED TO
RESEARCH,
INNOVATION AND
EDUCATION

43
years

CERTIFICATE OF PARTICIPATION

This is to certify that

Puneeth Batchu

has actively participated in the virtual event

"CBIT Hacktoberfest Hackathon 2021" held on 29-30th October, 2021

Organized by



Presented by



DigitalOcean



appwrite

intel



deepsources

In Association with



Dr. P. Ravinder Reddy
Principal, CBIT

Dr. Y. Ramadevi
CSE HOD, CBIT

Mr. R. Srikanth
Incharge, CO SC

CERTIFICATE

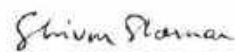
OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **PUNEETH BATCHU** ▶

This is to certify that the above mentioned candidate has successfully completed **Machine Learning** live projects from Artifintel in association with Skillvertex from **5th December 2021 to 5th January 2022**

During this internship he/she showed diligence, consistency & determination.



Shivam Sharma
(VP - Human Resources)

C E R T I F I C A T E

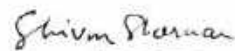
OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

PUNEETH BATCHU

This is to certify that the above mentioned candidate has successfully completed his/her training in Machine Learning from 5th November to 5th December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma
(VP - Human Resources)



Student UIN : 2002535

Certificate no. : RA1713535

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS55S23583080

To
BUCHALA RAGHU
H-NO:7-167,CHAITANYA NAGAR ROAD NO 6,
MIRYALAGUDA,NALGONDA(DIST),TELANGANA
MIRYALAGUDA
TELANGANA - 508207
PH. NO :7993066054



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

BUCHALA RAGHU

for successfully completing the course

Programming in C++

with a consolidated score of **70** %

Online Assignments	24.63/25	Programming Exam	25/25	Proctored Exam	20/50
--------------------	----------	------------------	-------	----------------	-------

Total number of candidates certified in this course: 336

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Jul-Sep 2021
(8 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Swecha

Certificate of Internship

This is to certify that

RAGHU BUCHALA

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032



30 Oct, 2021

Thummala Ram Charan Reddy

has successfully completed

Programming Foundations with JavaScript, HTML and CSS

an online non-credit course authorized by Duke University and offered through Coursera

Susan H. Rodger, Professor of the Practice, Computer Science
Robert Duvall, Lecturer, Computer Science
Owen Astrachan, Professor of the Practice, Computer Science
Andrew D. Hilton, Assistant Professor of the Practice, Electrical and Computer Engineering

COURSE
CERTIFICATE



Verify at coursera.org/verify/9DX4Z6Q53GSL
Coursera has confirmed the identity of this individual and their participation in the course.



Dec 14, 2021

Thummala Ram Charan Reddy

has successfully completed

Java Programming: Solving Problems with Software

an online non-credit course authorized by Duke University and offered through Coursera

COURSE
CERTIFICATE



Susan H. Rodgers, Owen Astrachan, Andrew D. Hilton, Robert Duvall

Verify at coursera.org/verify/5QFYN3Z8HF7K
Coursera has confirmed the identity of this individual and their participation in the course.

Swecha

Certificate of Internship

This is to certify that

Ram Charan Reddy Thummala

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13633305

To
SAI ABHIRAM ALLURI
MIG 12/8, 5TH PHASE, KPHB COLONY
MIG 12/8, 5TH PHASE, KPHB COLONY
HYDERABAD
TELANGANA - 500085
PH. NO :9491395487



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

SAI ABHIRAM ALLURI

for successfully completing the course

Programming in Java



with a consolidated score of **81** %

Online Assignments	24.25/25	Programming Exam	25/25	Proctored Exam	32/50
--------------------	----------	------------------	-------	----------------	-------

Total number of candidates certified in this course: **2649**

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Jul-Oct 2021
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



CERTIFICATE

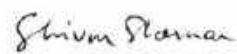
OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **SAI ABHIRAM ALLURI** ▶

This is to certify that the above mentioned candidate has successfully completed **Cyber Security** live projects from Artifintel in association with Skillvertex from 5th December 2021 to 5th January 2022

During this internship he/she showed diligence, consistency & determination.



Shivam Sharma
(VP - Human Resources)

Swecha

Certificate of Internship

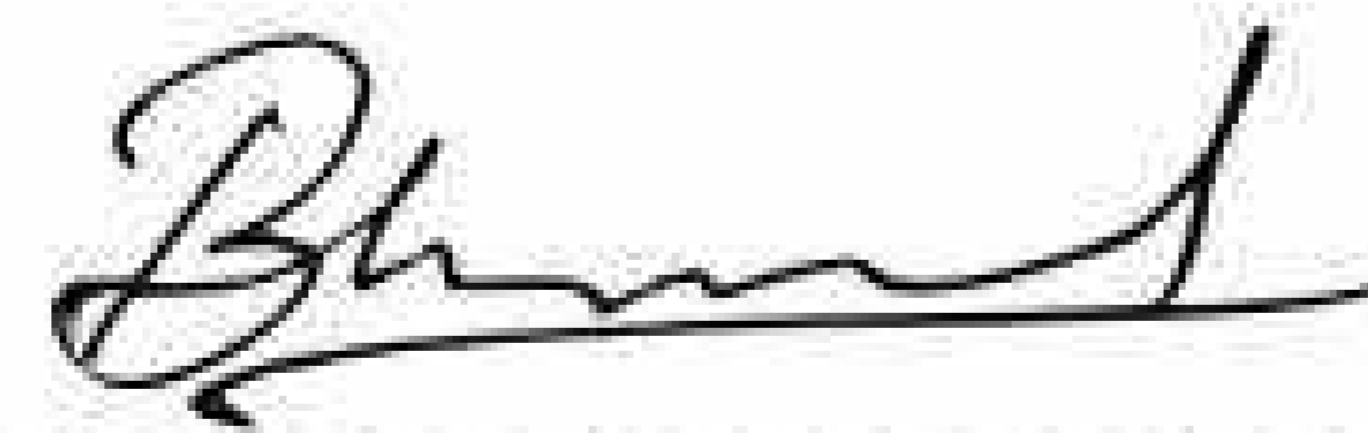
This is to certify that

Mandala Sai Ganesh Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

BANDARI SAI KISHORE

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

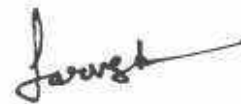
Certificate of Training

G G G SAI MURARI

from CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY has successfully completed an 8-week online training on **Web Development**. The training consisted of HTML, CSS, Bootstrap, DBMS, PHP, JS, React, and Final Project modules.

G G G SAI scored 100% marks in the final assessment and is a top performer in the training.

We wish G G G SAI all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-04 Certificate no. : 6D36C904-F4AD-92E6-4E60-04CD7A96CF01

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

CERTIFICATE

OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **KOREM SAI RUTHVIK REDDY** ▶

This is to certify that the above mentioned candidate has successfully completed **Cyber Security** live projects from Artifintel in association with Skillvertex from 5th December 2021 to 5th January 2022

During this internship he/she showed diligence, consistency & determination.

Shivam Sharma

Shivam Sharma
(VP - Human Resources)

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS68S33632835

To
SAI SAKETH KONJERLA
18-4, ANGADI BAZAR, LUXETTIPET
6-13, GANDHI CHOWK, LUXETTIPET
LUXETTIPET
TELENGANA - 504215
PH. NO :7989660438



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

SAI SAKETH KONJERLA

for successfully completing the course

Design and Analysis of Algorithms

with a consolidated score of **66** %

Online Assignments	24.5/25	Proctored Exam	41.25/75
--------------------	---------	----------------	----------

Total number of candidates certified in this course: **514**

Devendra Jalihal

Prof. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Aug-Oct 2021
(8 week course)

Prof. Andrew Thangaraj

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras



Indian Institute of Technology Madras



Swecha

Certificate of Internship

This is to certify that

Sai Saketh Konjerla

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032



Certificate of Internship

This is to certify that

SAI VISHAL UPPALA

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.

**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13633017

To
SATVIK YADAV ELITEM
PLOT-1, FLAT-202, MUKUNDA RESIDENCY
JAYANAGAR, NEW BOWENPALLY, SECUNDERABAD
HYDERABAD
TELANGANA - 500011
PH. NO :8125403627



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

SATVIK YADAV ELITEM

for successfully completing the course

Programming in Java



with a consolidated score of **81** %

Online Assignments	23.31/25	Programming Exam	25/25	Proctored Exam	33/50
--------------------	----------	------------------	-------	----------------	-------

Total number of candidates certified in this course: **2649**

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Jul-Oct 2021
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13630462

To
M G SHAHBAZ JAHAN
4-7-8-90/A, RAGHAVENDRA NAGAR ,NACHARAM
TELANGANA - 500076
PH. NO :919491626157



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

M G SHAHBAZ JAHAN

for successfully completing the course

Programming in Java



with a consolidated score of **82** %

Online Assignments	22.53/25	Programming Exam	25/25	Proctored Exam	34/50
--------------------	----------	------------------	-------	----------------	-------

Total number of candidates certified in this course: **2649**

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Jul-Oct 2021
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Mail - SHAIK ABDUL KHADER AL AMOUDI - Outlook

https://outlook.office.com/mail/.../AAQkAGVhZDAwZjMxOTk1MwQBNjJlNC05MTFjCjM4ZDk1ZDQyZmY5MwAQA0497rperTshFw/Qow0tz4o/630/sz/AAN%...

Search

Swecha_Internship_Cohort_6_Certificatio... Download Print Open in new tab Hide email

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Certificate of Internship

This is to certify that

Shaik Abdul Khader Al Amoudi Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharigal, Nehru Outer Ring Rd, Madhava Reddy Colony, Gachibowli, Telangana 500032

160120733051_internship certificate

5 SHAIK ABDUL KHADER AL AMOUDI
Fri 10/21/2021 9:35 AM
To: suvarnakumari_rse@cbit.ac.in

 Swecha_Internship_Coho...
...cbitecege-mysharepoint...

[Reply](#) [Forward](#)

160120733051_internship.c... (No subject)

14-03-2022 17:11

Swecha

Certificate of Internship

This is to certify that

Shyam Sundar Pobbothi Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Siddhardha Kattanguru

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

C E R T I F I C A T E

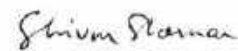
OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **SREE HARSHITH VAJINEPALLI** ▶

This is to certify that the above mentioned candidate has successfully completed **Machine Learning** live projects from Artifintel in association with Skillvertex from **5th December 2021 to 5th January 2022**

During this internship he/she showed diligence, consistency & determination.



Shivam Sharma
(VP - Human Resources)

C E R T I F I C A T E

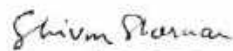
OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

SREE HARSHITH VAJINEPALLI

This is to certify that the above mentioned candidate has successfully completed his/her training in Machine Learning from 5th November to 5th December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma
(VP - Human Resources)



Student UIN : 2002559

Certificate no. : RA1713559

C E R T I F I C A T E

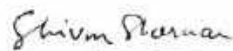
OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

SUMANTH GEDDAM

This is to certify that the above mentioned candidate has successfully completed his/her training in Machine Learning from 5th November to 5th December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma
(VP - Human Resources)



Student UIN : 2002524

Certificate no. : RA1713524

C E R T I F I C A T E

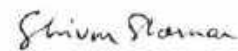
OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **SUMANTH GEDDAM** ▶

This is to certify that the above mentioned candidate has successfully completed **Machine Learning** live projects from Artifintel in association with Skillvertex from **5th December 2021 to 5th January 2022**

During this internship he/she showed diligence, consistency & determination.



Shivam Sharma
(VP - Human Resources)

Swecha

Certificate of Internship

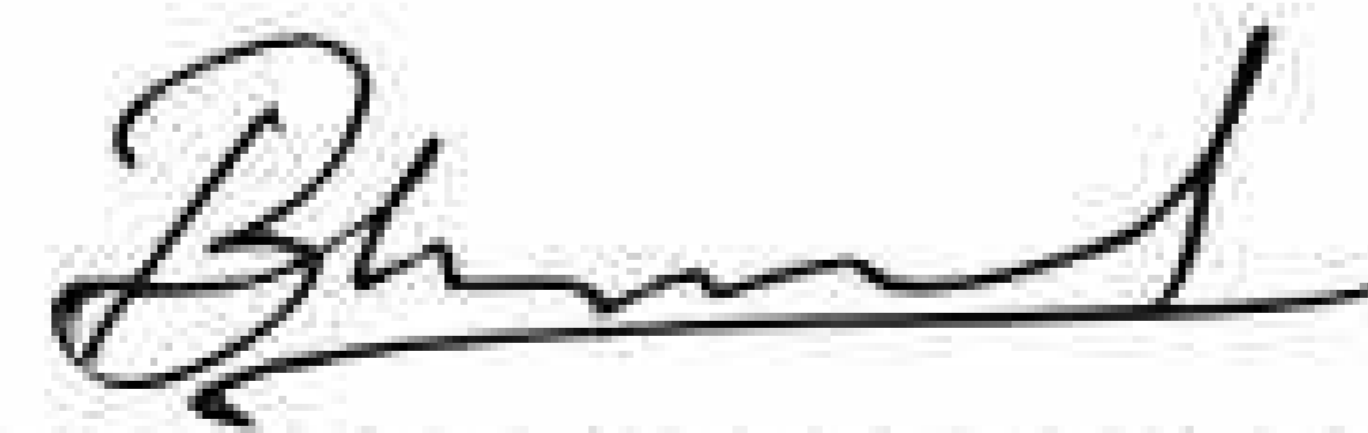
This is to certify that

ROSE UDAY

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

C E R T I F I C A T E

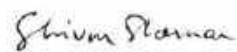
OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **BATHULA VAMSHI KRISHNA** ▶

This is to certify that the above mentioned candidate has successfully completed **Machine Learning** live projects from Artifintel in association with Skillvertex from **5th December 2021 to 5th January 2022**

During this internship he/she showed diligence, consistency & determination.



Shivam Sharma
(VP - Human Resources)

Swecha

Certificate of Internship

This is to certify that

Vikram Mali

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

CERTIFICATE

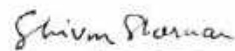
OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

VISHNU SATHWIK REBALLY

This is to certify that the above mentioned candidate has successfully completed his/her training in Machine Learning from 5th November to 5th December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma
(VP - Human Resources)



Student UIN : 2002560

Certificate no. : RA1713560

C E R T I F I C A T E

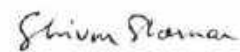
OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **VISHNU SATHWIK REBALLY** ▶

This is to certify that the above mentioned candidate has successfully completed **Machine Learning** live projects from Artifintel in association with Skillvertex from **5th December 2021 to 5th January 2022**

During this internship he/she showed diligence, consistency & determination.



Shivam Sharma
(VP - Human Resources)

C E R T I F I C A T E

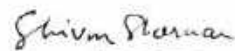
OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

MAYANK GUJRATHI

This is to certify that the above mentioned candidate has successfully completed his/her training in Machine Learning from 5th November to 5th December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma
(VP - Human Resources)



Student UIN : 2002538

Certificate no. : RA1713538

C E R T I F I C A T E

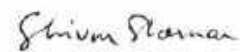
OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

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This is to certify that the above mentioned candidate has successfully completed **Machine Learning** live projects from Artifintel in association with Skillvertex from **5th December 2021 to 5th January 2022**

During this internship he/she showed diligence, consistency & determination.



Shivam Sharma
(VP - Human Resources)

Swecha

Certificate of Internship

This is to certify that

VADNALA NIKITA

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

SAI AKSHITHA

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
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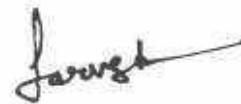
Certificate of Training

Pagidipala Rajavardhan

from Chaitanya Bharathi Institute of Technology has successfully completed an 8-week online training on **Web Development**. The training consisted of HTML, CSS, Bootstrap, DBMS, PHP, JS, React, and Final Project modules.

Pagidipala scored 93% marks in the final assessment and is a top performer in the training.

We wish Pagidipala all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-07

Certificate no. : 84BA68D2-D62E-B843-F61E-B9991A3E851E

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Aleti Snigdha

participated in "Artificial Intelligence - Languify"
from 11th Nov, 2021 to 11th Jan, 2022
and successfully completed the program.

16-Jan-2022

DATE



PAUL MATHEW. I
OVERALL COORDINATOR

Swecha

Certificate of Internship

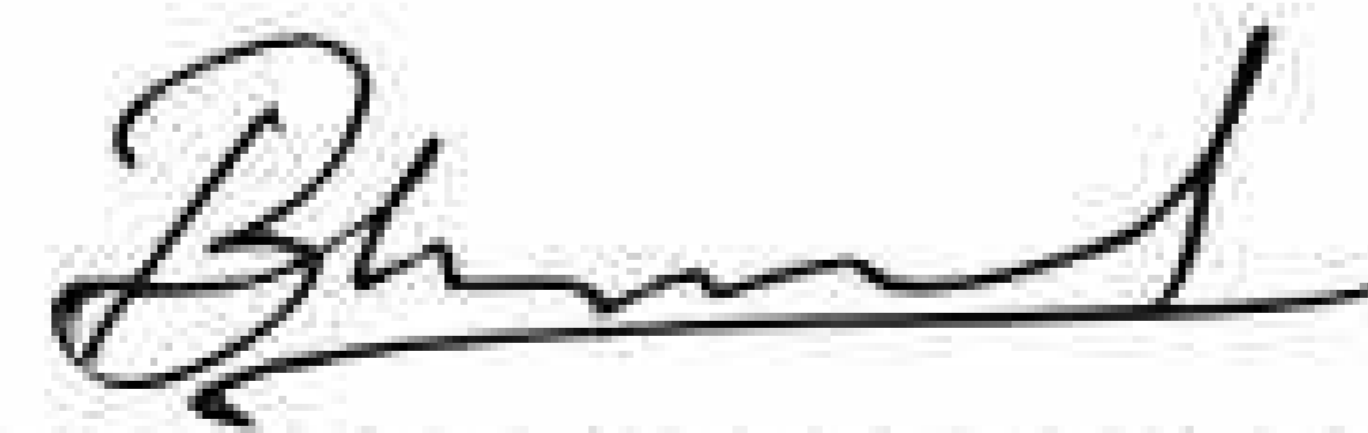
This is to certify that

ANUSHA BOORA

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

CERTIFICATE

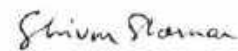
OF INTERNSHIP COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

◀ **TANISH ROHIL GALI** ▶

This is to certify that the above mentioned candidate has successfully completed **Machine Learning** live projects from Artifintel in association with Skillvertex from **5th December 2021 to 5th January 2022**

During this internship he/she showed diligence, consistency & determination.



Shivam Sharma
(VP - Human Resources)

CERTIFICATE

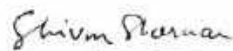
OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

TANISH ROHIL GALI

This is to certify that the above mentioned candidate has successfully completed his/her training in Machine Learning from 5th November to 5th December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma
(VP - Human Resources)



Student UIN : 2002530

Certificate no. : RA1713530

Swecha

Certificate of Internship

This is to certify that

Amulya Nandala

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

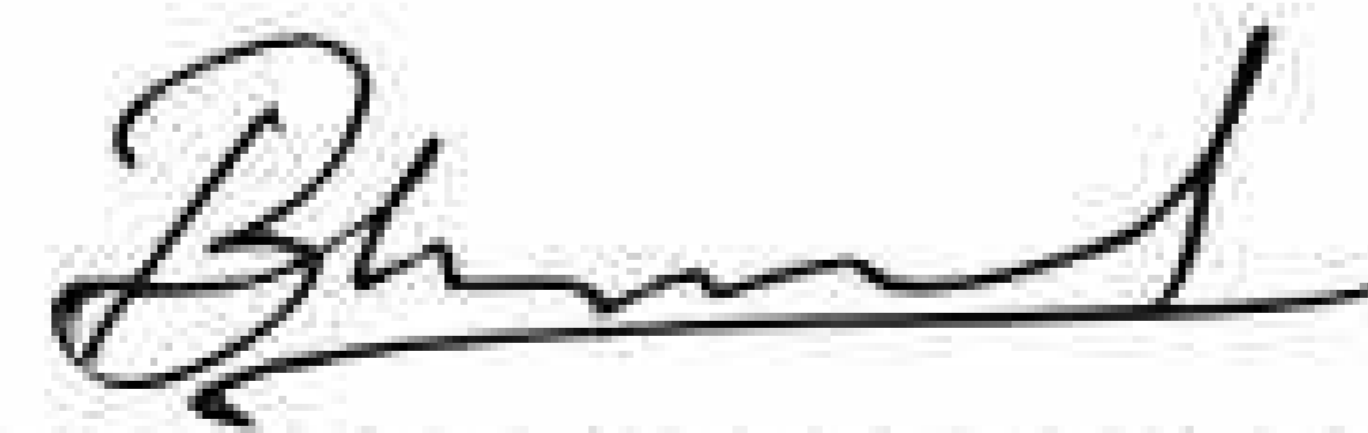
This is to certify that

Vanam Anjali

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032



Jan 27, 2022

Hamsitha Kotla

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE
CERTIFICATE



Handwritten signature of Anh Le in black ink.

Anh Le
Curriculum Developer
Codio

Handwritten signature of Elise Deitrick in black ink.

Elise Deitrick, PhD
VP of Product
Codio

Verify at:
coursera.org/verify/2BMXJASPXBCS

Coursera has confirmed the identity of this individual and their participation in the course.



Jan 27, 2022

Hamsitha Kotla

has successfully completed

C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE
CERTIFICATE



Verify at:
coursera.org/verify/Z4QVRMFFRRTN

Coursera has confirmed the identity of this individual and their participation in the course.



Jan 28, 2022

Hamsitha Kotla

has successfully completed

C++ Object Basics: Functions, Recursion, and Objects

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE CERTIFICATE



Verify at:
coursera.org/verify/U4S6JSK74DDP

Coursera has confirmed the identity of this individual and their participation in the course.

Swecha

Certificate of Internship

This is to certify that

Mallu Harshitha Reddy

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Niveditha Reddy Mandala

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Poojitha Pachava

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

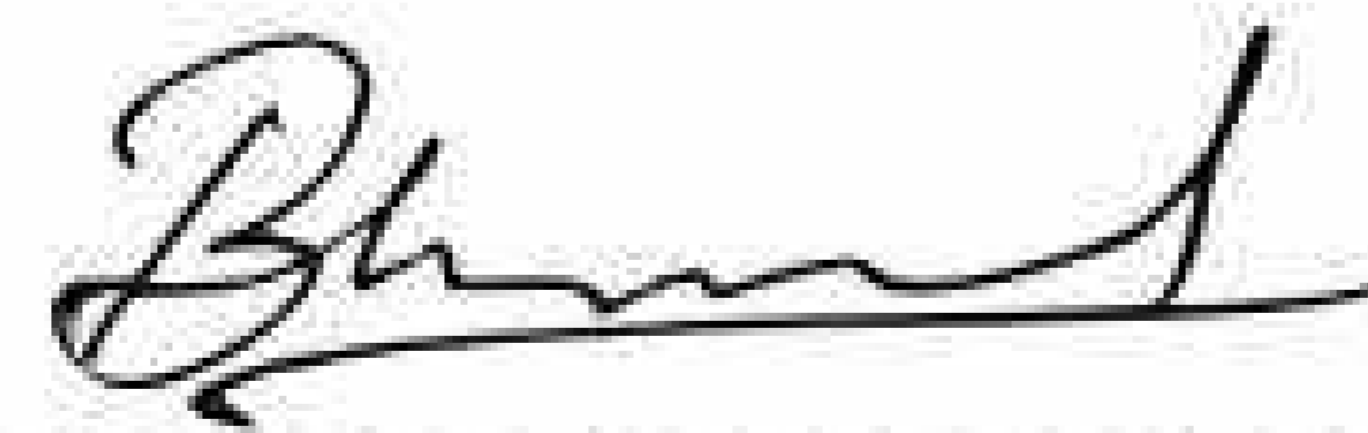
This is to certify that

Ponnur Roopika

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Sreeni Tummuru

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

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Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

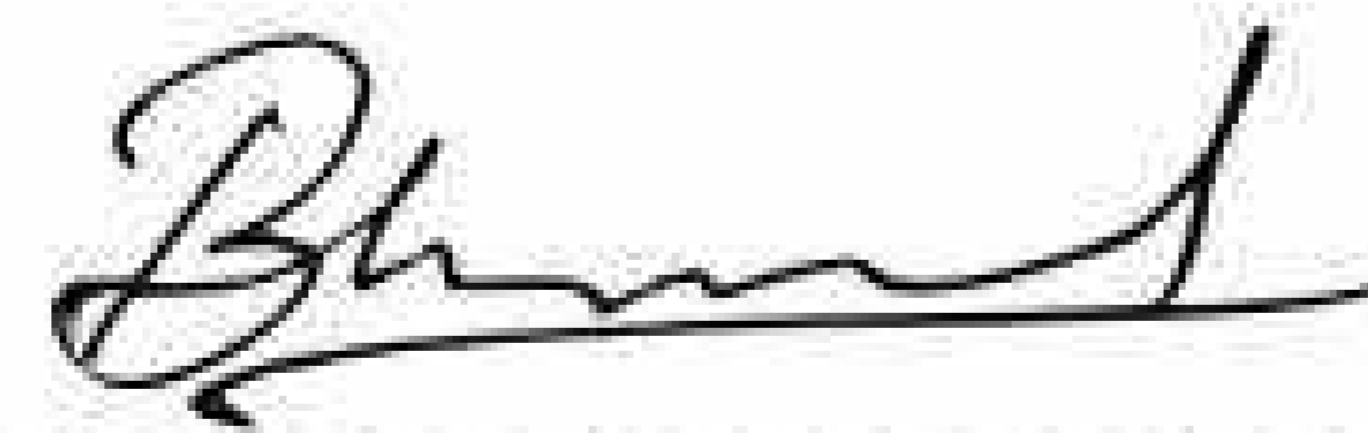
This is to certify that

Sri Meghana

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Sri Nidhi Challa

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Karri Tejaswi Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

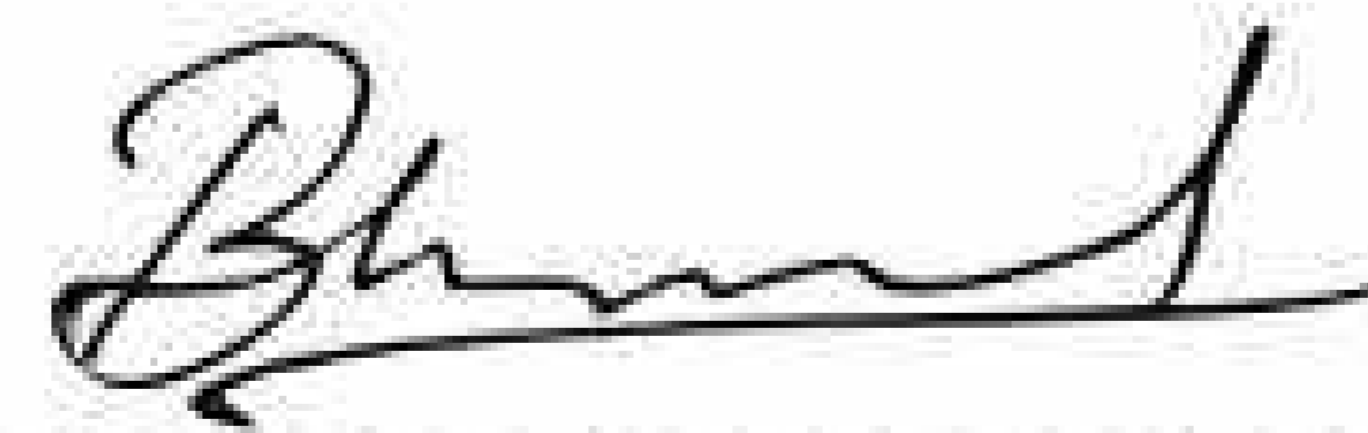
This is to certify that

Vaasuki Achampeta Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

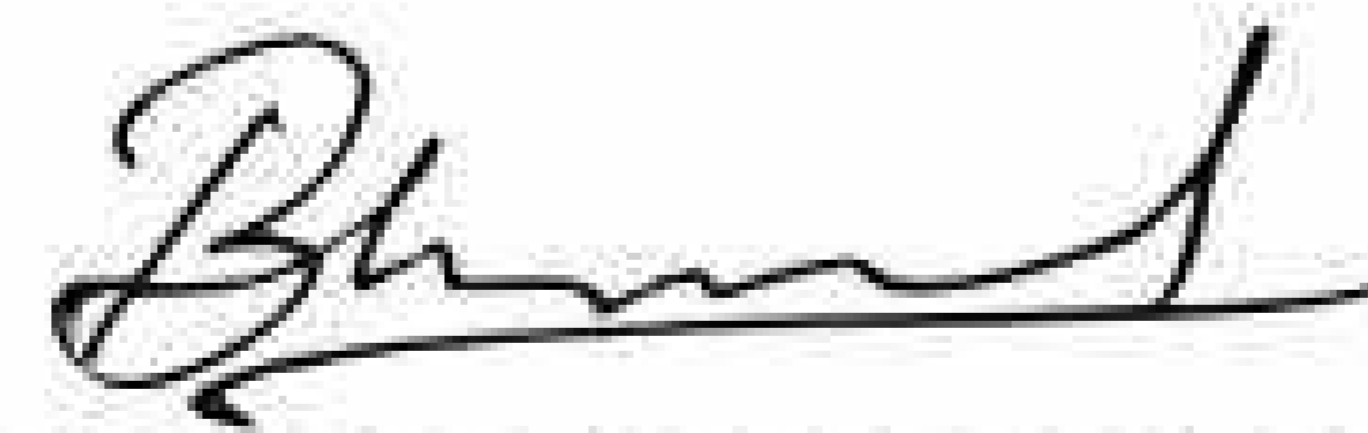
This is to certify that

Yahshaswitha S Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

JMS ABHINAV

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



EXECUTIVE COMMITTEE MEMBER
SWECHA



Oct 2, 2021

ABHINAV SANDRU

has successfully completed

Java Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

Patrick Ester, Curriculum Developer, Codio
Anh Le, Curriculum Developer, Codio
Elise Deitrick, PhD, VP of Product, Codio

COURSE CERTIFICATE



Verify at:
coursera.org/verify/X44F4CCEQ6GC

Coursera has confirmed the identity of this individual and their participation in the course.



Mar 20, 2022

ABHINAV SANDRU

has successfully completed

Java Basic Structures: Arrays, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Patrick Ester, Curriculum Developer, Codio
Anh Le, Curriculum Developer, Codio
Elise Deitrick, PhD, VP of Product, Codio

COURSE CERTIFICATE



Verify at:
coursera.org/verify/T96YBS6BT9UP

Coursera has confirmed the identity of this individual and their participation in the course.



Mar 20, 2022

ABHINAV SANDRU

has successfully completed

Java Object Basics: Functions, Recursion, and Objects

an online non-credit course authorized by Codio and offered through Coursera

A handwritten signature in black ink, appearing to read 'Patrick Ester'.

Patrick Ester, Curriculum Developer, Codio
Anh Le, Curriculum Developer, Codio
Elise Deitrick, PhD, VP of Product, Codio

COURSE CERTIFICATE



Verify at:
coursera.org/verify/D7FVHUA8RCWY

Coursera has confirmed the identity of this individual and their participation in the course.



CARAVEL / HR / 2021 - LSD F0343C7BF

DATED: Jan 25, 2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Aditya Yerabati** has completed the internship program as **Developer Intern** under the guidance of Vamsi Kurama.

The duration of this project was from the **13th Sept 2021** to the **13th Jan 2022**.

The internship on evaluation fulfills all the stated criteria, and the student's findings are his original work.

During this period, **Mr. Aditya Yerabati** has worked on various areas of various **projects and documentation** and has met the objectives that were set at the beginning of the project.

Thanking you,

A handwritten signature in black ink that reads "Vamsi Kurama". The signature is written in a cursive style and is underlined.

Vamsi Kurama
Founder and CEO
Caravel.Tech

Swecha

Certificate of Internship

This is to certify that

Akash Bathula

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

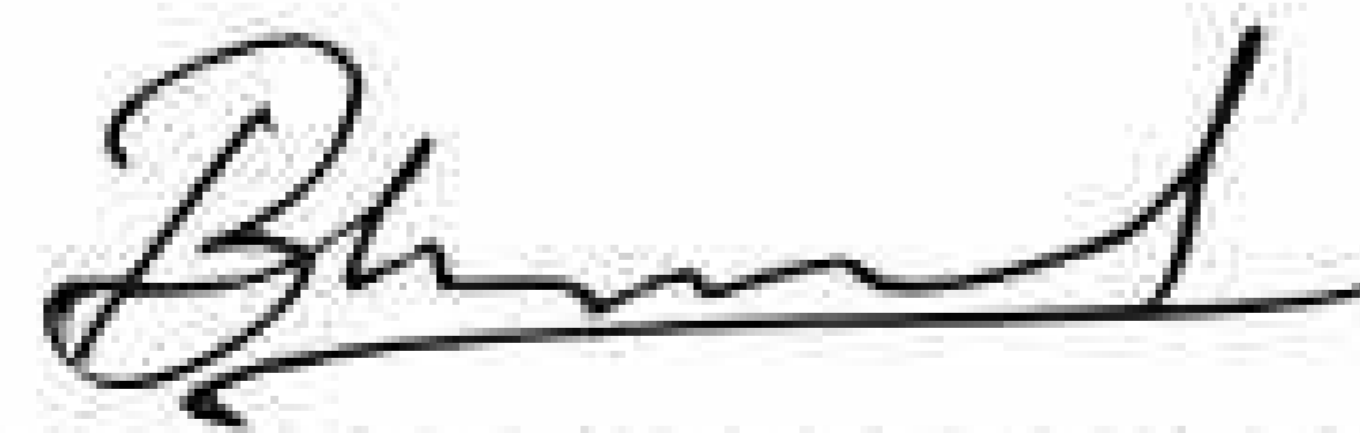
This is to certify that

Arunanjan Bandari

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032



Sep 30, 2021

GOLLA ASHISH

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE CERTIFICATE



Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

Verify at coursera.org/verify/6EGVTXERGSJ2
Coursera has confirmed the identity of this individual and their participation in the course.



Nov 16, 2021

GOLLA ASHISH

has successfully completed

C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE CERTIFICATE



Verify at coursera.org/verify/2ATU575877K9
Coursera has confirmed the identity of this individual and their
participation in the course.

Swecha

Certificate of Internship

This is to certify that

N Bhanu Prakash

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

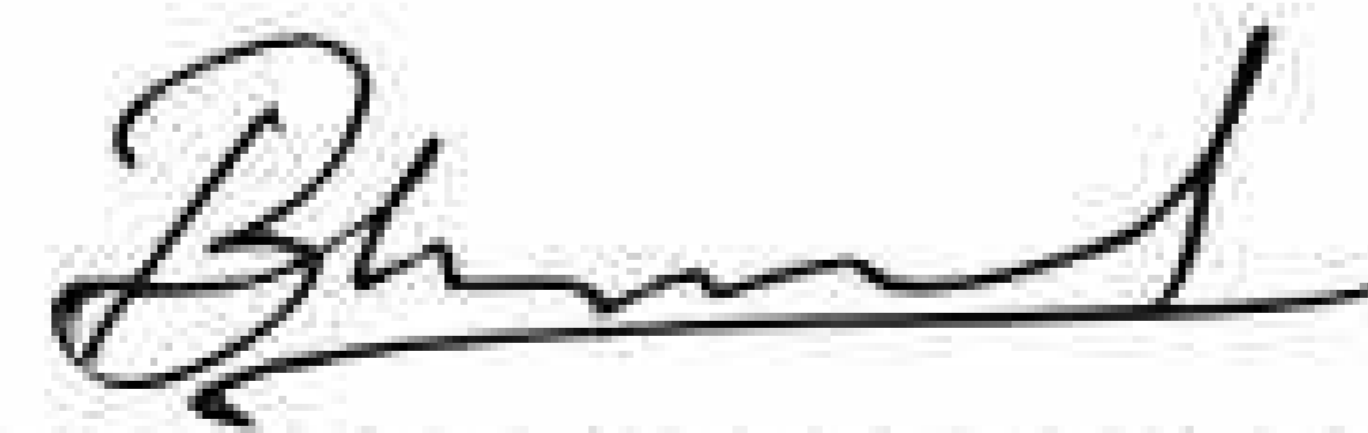
This is to certify that

Bharathchandra Nagunuri

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

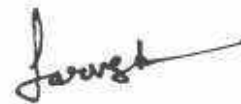
Certificate of Training

Chandrabose Chiluka

from CBIT has successfully completed an 8-week online training on **Web Development**. The training consisted of HTML, CSS, Bootstrap, DBMS, PHP, JS, React, and Final Project modules.

Chandrabose scored 91% marks in the final assessment and is a top performer in the training.

We wish Chandrabose all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-03

Certificate no. : B5A1EAB7-2B7E-2617-82EF-0943839B7BC6

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate



CHAITANYA BHARATHI
INSTITUTE OF TECHNOLOGY (A)
Kokapet (Village), Gandipet, Hyderabad, Telangana-500075. www.cbfi.ac.in



COMMITTED TO
RESEARCH,
INNOVATION AND
EDUCATION

42
years

CARAVEL TECH INTERNSHIP PROJECT REPORT

MASK DETECTION

Dheeraj Nune

160120733098

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY

(AUTONOMOUS)

Acknowledgment:

We would like to express our heartfelt gratitude to our industry supervisor, for his invaluable guidance and constant support, along with his capable instruction and persistent encouragement. We are grateful to our Head of Department, for her steady support and for the provision of every resource required for the completion of this project. We would like to take this opportunity to thank our principal, as well as the management of the institute, for permitting us to do this internship.

Contents:

1	Abstract	1
2	Aim	1
3	Motivation	1
4	Specifications	1
5	Methodology	2
6	Source code	2
7	Outputs	7
8	Conclusion	8

Abstract:

Mask Detection Software identifies if the person is wearing a mask or not with high precision. It can be used to develop a more sophisticated application later on which can be installed in shopping malls, offices etc.

Aim:

To develop a software that checks if the person is wearing masks or not by clicking photos realtime.

Motivation:

Masks have become a necessity these days. It has become a standard protocol to verify masks outside any malls, shopping complexes, offices. Shifting to digital methods for this verification can save a lot of time and effort.

Hardware and Software Specs Required:

Hardware requirements:

RAM: 4GB and above

PROCESSOR: 64-bit

HARDDISK: 2.5GB is minimum

Software requirements:

OS: windows or linux

VS Code is required

Language: Python

Modules required:

- Lightning Flash
- Torch
- Tkinter
- PIL
- cv2

Methodology:

We will have to build up a machine learning model which can judge if a person in the picture has mask on or not

We use the lightning Flash Image classification module to train the mask detection model

We import a data module to train the model and also validate it

Then we finetune our model

We can use Tkinter to create a gui window to display the images which were given as input to the code and the predicted output

We can use video capture function from cv2 to prompt the user to click a picture of himself and give our result using our trained model

Source Code:

main.py:

```
import torch

import flash

from flash.image import ImageClassificationData, ImageClassifier

import tkinter
from tkinter import *
from PIL import Image, ImageTk

root = Tk()

photos = [
    r"C:\Users\boorl\OneDrive\Desktop\MASK
DETECTION\mask_detection_data\with_mask_525.jpg",
    r"C:\Users\boorl\OneDrive\Desktop\MASK
DETECTION\mask_detection_data\with_mask_526.jpg",
    r'C:\Users\boorl\OneDrive\Desktop\MASK
DETECTION\mask_detection_data\without_mask_500.jpg',
    r'C:\Users\boorl\OneDrive\Desktop\MASK
DETECTION\mask_detection_data\without_mask_501.jpg',
    r'C:\Users\boorl\OneDrive\Desktop\MASK
DETECTION\mask_detection_data\with_mask_3710.jpg',
    r'C:\Users\boorl\OneDrive\Desktop\MASK
DETECTION\mask_detection_data\with_mask_3711.jpg',
    r'C:\Users\boorl\OneDrive\Desktop\MASK
DETECTION\mask_detection_data\without_mask_3200.jpg',
```



```

    r'C:\Users\boorl\OneDrive\Desktop\MASK
DETECTION\mask_detection_data\CYMERA_20210922_113550.jpg',
    r'C:\Users\boorl\OneDrive\Desktop\MASK
DETECTION\mask_detection_data\IMG_20211120_175110.jpg',
    r'C:\Users\boorl\OneDrive\Desktop\MASK
DETECTION\mask_detection_data\Screenshot_20211120-231252.jpg',
    r'C:\Users\boorl\OneDrive\Desktop\MASK
DETECTION\mask_detection_data\without_mask_2500.jpg',
    r'C:\Users\boorl\OneDrive\Desktop\MASK DETECTION\mask_detection_data\WhatsApp Image
2021-11-22 at 9.25.13 PM.jpeg',
    r'C:\Users\boorl\OneDrive\Desktop\MASK DETECTION\mask_detection_data\adi wom.jpeg',
    r'C:\Users\boorl\OneDrive\Desktop\MASK DETECTION\mask_detection_data\sreek wom.jpg',
]

```

```
a=50
```

```
b=50
```

```
width = 50
```

```
height = 50
```

```
for photo in photos:
```

```
    image1 = Image.open(photo)
```

```
    resize_image = image1.resize((width, height))
```

```
    #image1 = ImageTk.PhotoImage(resize_image)
```

```
    #test = ImageTk.PhotoImage(image1)
```

```
    test = ImageTk.PhotoImage(resize_image)
```

```
    label1 = tkinter.Label(image=test)
```

```
    label1.image = test
```

```
    label1.place(x=a, y=b)
```

```
    b=b+60
```

```
    if b==350:
```

```
        a=a+300
```

```
        b=50
```

```
# 1. Create the DataModule
```

```
datamodule = ImageClassificationData.from_folders(
```

```
    train_folder="C:\\Users\\boorl\\OneDrive\\Desktop\\MASK
```

```
DETECTION\\mask_detection_data\\train",
```

```
    val_folder="C:\\Users\\boorl\\OneDrive\\Desktop\\MASK DETECTION\\mask_detection_data\\val"
```

```
)
```

```
# 2. Build the task
```

```
model = ImageClassifier(backbone="resnet18", num_classes=datamodule.num_classes)
```

3. Create the trainer and finetune the model

```
trainer = flash.Trainer(max_epochs=3, gpus=torch.cuda.device_count())
trainer.finetune(model, datamodule=datamodule, strategy="freeze")
```

4. Predict what's on a few images! With or without mask?

```
predictions = model.predict(
    [
        r"C:\Users\boorl\OneDrive\Desktop\MASK
        DETECTION\mask_detection_data\with_mask_525.jpg",
        r"C:\Users\boorl\OneDrive\Desktop\MASK
        DETECTION\mask_detection_data\with_mask_526.jpg",
        r"C:\Users\boorl\OneDrive\Desktop\MASK
        DETECTION\mask_detection_data\without_mask_500.jpg",
        r"C:\Users\boorl\OneDrive\Desktop\MASK
        DETECTION\mask_detection_data\without_mask_501.jpg",
        r"C:\Users\boorl\OneDrive\Desktop\MASK
        DETECTION\mask_detection_data\with_mask_3710.jpg",
        r"C:\Users\boorl\OneDrive\Desktop\MASK
        DETECTION\mask_detection_data\with_mask_3711.jpg",
        r"C:\Users\boorl\OneDrive\Desktop\MASK
        DETECTION\mask_detection_data\without_mask_3200.jpg",
        r"C:\Users\boorl\OneDrive\Desktop\MASK
        DETECTION\mask_detection_data\CYMER_A_20210922_113550.jpg",
        r"C:\Users\boorl\OneDrive\Desktop\MASK
        DETECTION\mask_detection_data\IMG_20211120_175110.jpg",
        r"C:\Users\boorl\OneDrive\Desktop\MASK
        DETECTION\mask_detection_data\Screenshot_20211120-231252.jpg",
        r"C:\Users\boorl\OneDrive\Desktop\MASK DETECTION\mask_detection_data\WhatsApp Image
        2021-11-22 at 9.25.13 PM.jpeg",
        r"C:\Users\boorl\OneDrive\Desktop\MASK DETECTION\mask_detection_data\adi wom.jpeg",
        r"C:\Users\boorl\OneDrive\Desktop\MASK DETECTION\mask_detection_data\sreek wom.jpg",
    ]
)
print(predictions)

a=150
b=50
for prediction in predictions:
    user_name = Label(root, text = prediction).place(x = a,y = b)
    b=b+60
    if b==350:
        a=a+300
```

```
b=50
```

```
# 5. Save the model!
```

```
trainer.save_checkpoint("image_classification_model.pt")
```

```
root.mainloop()
```

main2.py:

```
import cv2
```

```
import main
```

```
cam = cv2.VideoCapture(0)
```

```
cv2.namedWindow("test")
```

```
img_counter = 0
```

```
images=[]
```

```
while True:
```

```
    ret, frame = cam.read()
```

```
    if not ret:
```

```
        print("failed to grab frame")
```

```
        break
```

```
    cv2.imshow("test", frame)
```

```
    k = cv2.waitKey(1)
```

```
    if k%256 == 27:
```

```
        # ESC pressed
```

```
        print("Escape hit, closing...")
```

```
        break
```

```
    elif k%256 == 32:
```

```
        # SPACE pressed
```

```
        img_name = "opencv_frame_{}.png".format(img_counter)
```

```
        cv2.imwrite(img_name, frame)
```

```
        print("{} written!".format(img_name))
```

```
        img_counter += 1
```

```
        images.append(img_name)
```

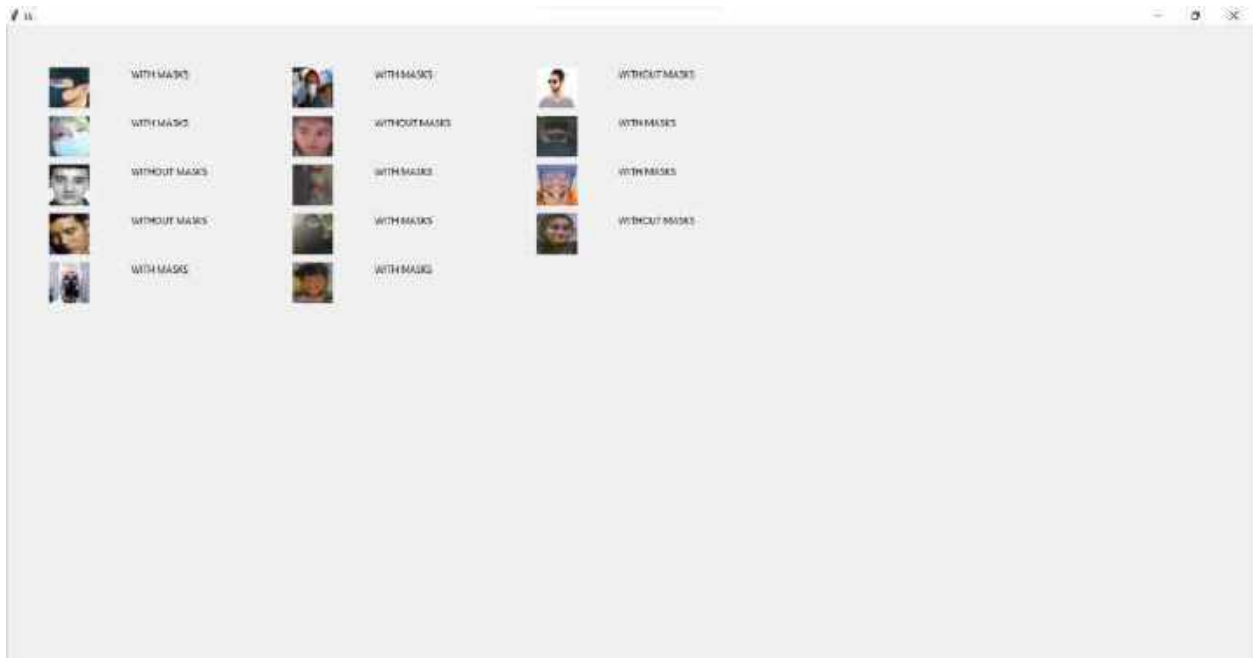
```
cam.release()
```

```
cv2.destroyAllWindows()
```

```
prediction = main.model.predict(images)
```

```
print(prediction)
```

Output:



```
opencv_frame_0.png written!  
Escape hit, closing...  
[ WARN:0] global D:\a\opencv-python\opencv-python\opencv\modules\  
ReaderCB terminating async callback  
['WITH MASKS']  
PS C:\Users\boor1\OneDrive\Desktop\MASK DETECTION> |
```

Video of the working of code:

<https://drive.google.com/file/d/1685X9ucqWFcjOiotzqmOt8xvuHpEDTAS/view?usp=sharing>

Conclusion:

We have successfully developed a program which clicks pictures realtime and analyses if the person is wearing masks or not.



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A handwritten signature in black ink, appearing to read 'Kevin Noelsaint'.

Kevin Noelsaint, Curriculum Developer, Codio
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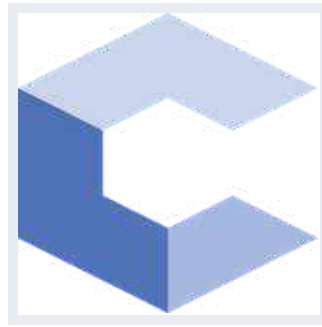
4 Courses

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Object-Oriented Java: Inheritance and Encapsulation



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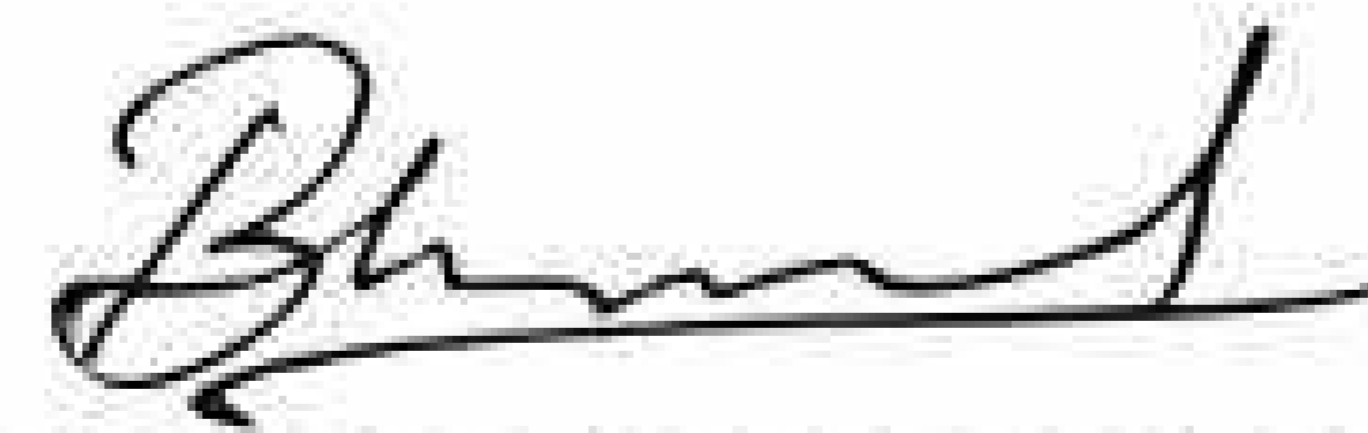
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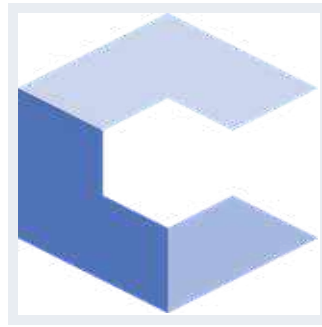
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C++ Basic Structures: Vectors, Pointers, Strings, and Files

C++ Object Basics: Functions, Recursion, and Objects

Object-Oriented C++: Inheritance and Encapsulation



19 Mar, 2022

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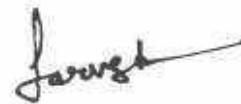
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Sanganabhatla Sai Hemanth

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In the final assessment, Sanganabhatla Sai scored 61% marks.

We wish Sanganabhatla Sai all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-21

Certificate no. : A44AF7A4-9E29-303C-3349-FB0A415197E1

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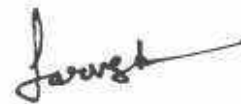
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Sai Kumar

from CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY has successfully completed a 6-week online training on **Machine Learning**. The training consisted of Introduction to Machine Learning, Data, Introduction to Python, Data Exploration and Pre-processing, Linear Regression, Introduction to Dimensionality Reduction, Logistic Regression, Decision Tree, Ensemble Models, and Clustering (Unsupervised Learning) modules.

In the final assessment, Sai scored 94% marks.

We wish Sai all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

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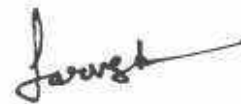
Certificate of Training

Rangavajjala Sankara Bharadwaj

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In the final assessment, Rangavajjala Sankara scored 86% marks.

We wish Rangavajjala Sankara all the best for future endeavours.



Sarvesh Agarwal

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Date of certification: 2022-01-22

Certificate no. : F5D0569A-AFB3-20C4-1858-28339EAAEE7D3

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**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Shiva kumar Bandam

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

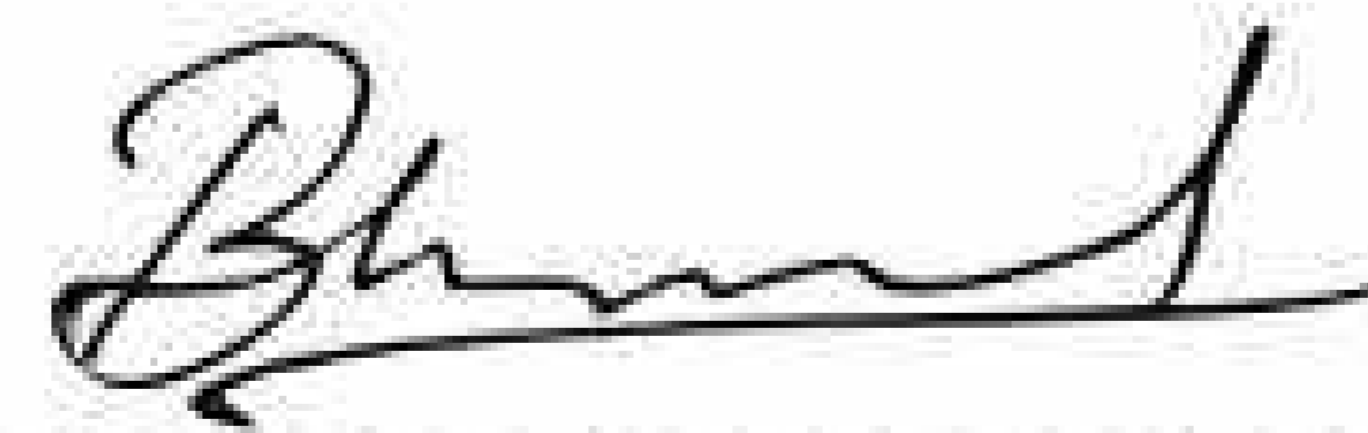
This is to certify that

Balne Shiva Sai Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032



Jan 9, 2022

Linga Sravan

has successfully completed

Java Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

A handwritten signature in black ink, appearing to read 'Patrick Ester'.

Patrick Ester, Curriculum Developer, Codio
Anh Le, Curriculum Developer, Codio
Elise Deitrick, PhD, VP of Product, Codio

**COURSE
CERTIFICATE**



Verify at coursera.org/verify/8XPGGS8Z9CCK
Coursera has confirmed the identity of this individual and their
participation in the course.



Jan 22, 2022

Linga Sravan

has successfully completed

Java Basic Structures: Arrays, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Patrick Ester, Curriculum Developer, Codio
Ansh Le, Curriculum Developer, Codio
Elise Deitrick, PhD, VP of Product, Codio

COURSE CERTIFICATE



Verify at coursera.org/verify/U32K9TN5DZKF
Coursera has confirmed the identity of this individual and their participation in the course.



Jan 29, 2022

Linga Sravan

has successfully completed

Java Object Basics: Functions, Recursion, and Objects

an online non-credit course authorized by Codio and offered through Coursera

A handwritten signature in black ink, appearing to read 'Patrick Ester'.

Patrick Ester, Curriculum Developer, Codio
Anh Le, Curriculum Developer, Codio
Elise Deitrick, PhD, VP of Product, Codio

COURSE CERTIFICATE



Verify at coursera.org/verify/G5PDSQRATLMD
Coursera has confirmed the identity of this individual and their participation in the course.

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS62S23631773

To
K SREEVARDHANREDDY
PLOT9(II),SAIDWARAKAPURI,CHERLAPALLY
TELANGANA - 508001
PH. NO :9133469003

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate



No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
K SREEVARDHANREDDY
for successfully completing the course

Cloud Computing

with a consolidated score of **73** %

Online Assignments	23.75/25	Proctored Exam	49.17/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **3189**

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Aug-Oct 2021
(8 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur





Jan 24, 2022

Swaroop Patnaik

has successfully completed

Java Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

Patrick Ester, Curriculum Developer, Codio
Anh Le, Curriculum Developer, Codio
Elise Deitrick, PhD, VP of Product, Codio

COURSE
CERTIFICATE



Verify at coursera.org/verify/TPNEN3VNE4YY
Coursera has confirmed the identity of this individual and their
participation in the course.



Jan 30, 2022

Swaroop Patnaik

has successfully completed

Java Basic Structures: Arrays, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Patrick Ester, Curriculum Developer, Codio
Anh Le, Curriculum Developer, Codio
Elise Deitrick, PhD, VP of Product, Codio

COURSE
CERTIFICATE



Verify at coursera.org/verify/LUKYDLBMUGFH
Coursera has confirmed the identity of this individual and their
participation in the course.



Feb 8, 2022

Swaroop Patnaik

has successfully completed

Java Object Basics: Functions, Recursion, and Objects

an online non-credit course authorized by Codio and offered through Coursera

Patrick Ester, Curriculum Developer, Codio
Anh Le, Curriculum Developer, Codio
Elise Deitrick, PhD, VP of Product, Codio

COURSE
CERTIFICATE



Verify at:
coursera.org/verify/JGLFZWF4DMMB

Coursera has confirmed the identity of this individual and their participation in the course.

Swecha

Certificate of Internship

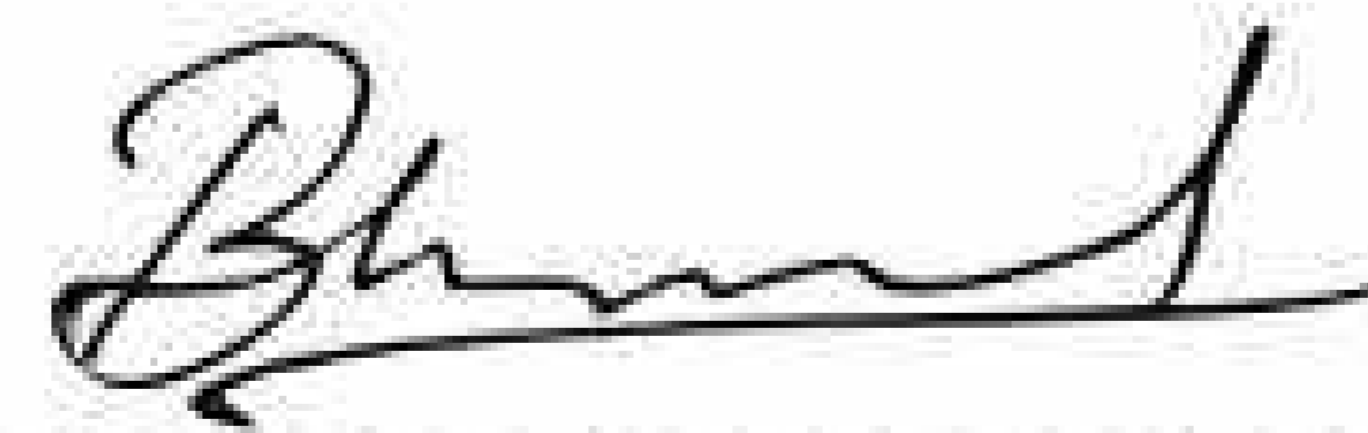
This is to certify that

Syed Md Kashan Naiyer Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

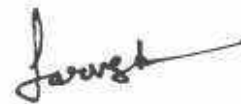
Certificate of Training

Varshith Reddy Ravula

from Chaitanya Bharathi Institute of Technology has successfully completed a 6-week online training on **Machine Learning**. The training consisted of Introduction to Machine Learning, Data, Introduction to Python, Data Exploration and Pre-processing, Linear Regression, Introduction to Dimensionality Reduction, Logistic Regression, Decision Tree, Ensemble Models, and Clustering (Unsupervised Learning) modules.

In the final assessment, Varshith scored 85% marks.

We wish Varshith all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-21

Certificate no. : 329773E1-389D-6E15-203C-1F1DC2A1A580

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate



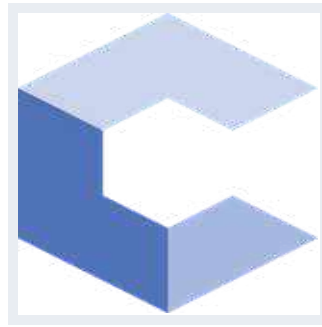
4 Courses

Java Basics: Selection and Iteration

Java Basic Structures: Arrays, Strings, and Files

Java Object Basics: Functions, Recursion, and Objects

Object-Oriented Java: Inheritance and Encapsulation



Jan 23, 2022

RAPELLY VIKAS SWAGATH

has successfully completed the online, non-credit Specialization

Programming in Java: A Hands-on Introduction

This specialization is intended for people without programming experience who seek to develop Java programming skills and learn about the underlying computer science concepts that will allow them to pick up other programming languages quickly. In these four courses, you will cover everything from fundamentals to object-oriented design. These topics will help prepare you to write anything from small programs to automate repetitive tasks to larger applications, giving you enough understanding of python to tackle more specialized topics such as Data Science and Artificial Intelligence.

Elise Deitrick, PhD
VP of Product
Codio

Patrick Ester
Curriculum Developer
Codio

Anh Le
Curriculum Developer
Codio

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:
coursera.org/verify/specialization/DNLKEQGM80P



Sep 25, 2021

RAPELLY VIKAS SWAGATH

has successfully completed

Java Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

Patrick Ester, Curriculum Developer, Codio
Anh Le, Curriculum Developer, Codio
Elise Deitrick, PhD, VP of Product, Codio

COURSE
CERTIFICATE



Verify at coursera.org/verify/C3UGZ7XKF8EF
Coursera has confirmed the identity of this individual and their participation in the course.



Sep 25, 2021

RAPELLY VIKAS SWAGATH

has successfully completed

Java Basic Structures: Arrays, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Patrick Ester, Curriculum Developer, Codio
Anh Le, Curriculum Developer, Codio
Elise Deitrick, PhD, VP of Product, Codio

COURSE
CERTIFICATE



Verify at coursera.org/verify/YN2NV2S62LHF
Coursera has confirmed the identity of this individual and their
participation in the course.



Dec 5, 2021

RAPELLY VIKAS SWAGATH

has successfully completed

Java Object Basics: Functions, Recursion, and Objects

an online non-credit course authorized by Codio and offered through Coursera

A handwritten signature in black ink, appearing to read 'Patrick Ester'.

Patrick Ester, Curriculum Developer, Codio
Anh Le, Curriculum Developer, Codio
Elise Deitrick, PhD, VP of Product, Codio

COURSE
CERTIFICATE



Verify at coursera.org/verify/NXXMD5TPV34Y
Coursera has confirmed the identity of this individual and their participation in the course.



Jan 23, 2022

RAPELLY VIKAS SWAGATH

has successfully completed

Object-Oriented Java: Inheritance and Encapsulation

an online non-credit course authorized by Codio and offered through Coursera

Patrick Ester, Curriculum Developer, Codio
Anh Le, Curriculum Developer, Codio
Elise Deitrick, PhD, VP of Product, Codio

COURSE
CERTIFICATE




Verify at coursera.org/verify/7AGJHG32W7W9
Coursera has confirmed the identity of this individual and their participation in the course.

Certificate of Training

Maroju Nikhil

from Chaitanya Bharathi Institute of Technology has successfully completed a 6-week online training on **Machine Learning**. The training consisted of Introduction to Machine Learning, Data, Introduction to Python, Data Exploration and Pre-processing, Linear Regression, Introduction to Dimensionality Reduction, Logistic Regression, Decision Tree, Ensemble Models, and Clustering (Unsupervised Learning) modules.

We wish Maroju all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-16

Certificate no. : 1838F928-F276-873A-E98B-567440D74D7D

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

Certificate of Training

Veldoj Saiteja

from Chaitanya Bharathi Institute of Technology has successfully completed a 6-week online training on **Machine Learning**. The training consisted of Introduction to Machine Learning, Data, Introduction to Python, Data Exploration and Pre-processing, Linear Regression, Introduction to Dimensionality Reduction, Logistic Regression, Decision Tree, Ensemble Models, and Clustering (Unsupervised Learning) modules.

We wish Veldoj all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-16

Certificate no. : 71D88979-1A22-1012-138F-7299B2A74F7F

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

Swecha

Certificate of Internship

This is to certify that

Sridhar Angoth

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Yogitha Aratla

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032


Certificate of Training

Akanksha Kamatam

from Chaitanya Barathi Institutions of Technology has successfully completed a 6-week online training on **Machine Learning**. The training consisted of Introduction to Machine Learning, Data, Introduction to Python, Data Exploration and Pre-processing, Linear Regression, Introduction to Dimensionality Reduction, Logistic Regression, Decision Tree, Ensemble Models, and Clustering (Unsupervised Learning) modules.

In the final assessment, Akanksha scored 65% marks.

We wish Akanksha all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-02-04

Certificate no.: 4ED0E566-F17C-71AA-5278-F50F3A833154

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate



Certificate of Training

Swapna Mudavath

from Chaitanya Bharathi Institute of Technology has successfully completed a 6-week online training on **Machine Learning**. The training consisted of Introduction to Machine Learning, Data, Introduction to Python, Data Exploration and Pre-processing, Linear Regression, Introduction to Dimensionality Reduction, Logistic Regression, Decision Tree, Ensemble Models, and Clustering (Unsupervised Learning) modules.

In the final assessment, Swapna scored 50% marks.

We wish Swapna all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-29

Certificate no. : 423C2F3B-B938-249C-F477-EFEE74BE6EC4

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate



Jan 22, 2022

Gandla Alekhya

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE
CERTIFICATE



Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

Verify at coursera.org/verify/LXGAMJYERV45
Coursera has confirmed the identity of this individual and their participation in the course.



29-Jan-2022

Gandla Alekhya

has successfully completed

C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE CERTIFICATE



Verify at coursera.org/verify/AHCXLTYK8M56
Coursera has confirmed the identity of this individual and their
participation in the course.



Jan 25, 2022

anjum

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

**COURSE
CERTIFICATE**



Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

Verify at coursera.org/verify/TZBFH9C8ZRBG
Coursera has confirmed the identity of this individual and their
participation in the course.



Jan 26, 2022

Asiya Anjum

has successfully completed

C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE CERTIFICATE



Verify at coursera.org/verify/UWXTXB4TJVPC
Coursera has confirmed the identity of this individual and their
participation in the course.

Swecha

Certificate of Internship

This is to certify that

D. Asritha

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032


Swecha

Certificate of Internship

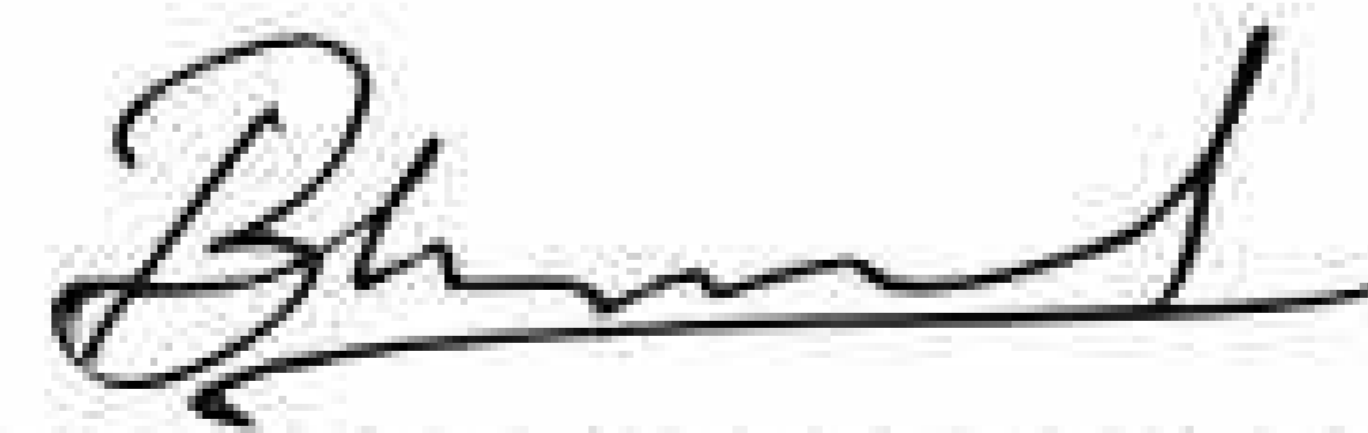
This is to certify that

laya c Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032



Nov 28, 2021

chandralekha ravikanti

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE
CERTIFICATE



Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

Verify at coursera.org/verify/9UUYNHNQNAU
Coursera has confirmed the identity of this individual and their
participation in the course.



Jan 26, 2022

chandralekha ravikanti

has successfully completed

**C++ Basic Structures: Vectors, Pointers, Strings,
and Files**

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE
CERTIFICATE



Verify at coursera.org/verify/G8ASLS9MRJGG
Coursera has confirmed the identity of this individual and their
participation in the course.



Nov 21, 2021

Veldurthi Jhahnavi

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE
CERTIFICATE



Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

Verify at coursera.org/verify/72Z4NDQFX8VH
Coursera has confirmed the identity of this individual and their participation in the course.



28-Jan-2022

Veldurthi Jhahnavi

has successfully completed

C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE CERTIFICATE



Verify at coursera.org/verify/LKKUNY8WQH9S
Coursera has confirmed the identity of this individual and their
participation in the course.



Dec 26, 2021

Guguloth Kiranmai

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE
CERTIFICATE



Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

Verify at coursera.org/verify/DGU9E9HXNW26
Coursera has confirmed the identity of this individual and their participation in the course.



Jan 26, 2022

Guguloth Kiranmai

has successfully completed

C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE CERTIFICATE



Verify at coursera.org/verify/HM25YM2NADG2
Coursera has confirmed the identity of this individual and their
participation in the course.



Sep 19, 2021

Roshini Singh

has successfully completed

Introduction to Java

an online non-credit course authorized by LearnQuest and offered through Coursera

Noel J. Bergman

Noel J. Bergman

Evan Bergman

COURSE CERTIFICATE



Verify at:
coursera.org/verify/ZYE35HRWEMK8

Coursera has confirmed the identity of this individual and their participation in the course.



Oct 3, 2021

Roshini Singh

has successfully completed

Introduction to Object-Oriented Programming with Java

an online non-credit course authorized by LearnQuest and offered through Coursera

Evan Bergman

Noel J. Bergman

Noel J. Bergman

COURSE CERTIFICATE



Verify at:
coursera.org/verify/RUV7XH3M8CVN

Coursera has confirmed the identity of this individual and their participation in the course.



Nov 19, 2021

Roshini Singh

has successfully completed

Object-Oriented Hierarchies in Java

an online non-credit course authorized by LearnQuest and offered through Coursera

Evan Bergman

Noel J. Bergman

Noel J. Bergman

COURSE CERTIFICATE



Verify at:
coursera.org/verify/S8T7R4TN6KCF

Coursera has confirmed the identity of this individual and their participation in the course.

Swecha

Certificate of Internship

This is to certify that

Yalla Sai Keertana

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032



Jan 22, 2022

veekshah rao ponugoti

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE
CERTIFICATE



Handwritten signature of Anh Le.

Anh Le
Curriculum Developer
Codio

Handwritten signature of Elise Deitrick.

Elise Deitrick, PhD
VP of Product
Codio

Verify at:
coursera.org/verify/BHGFBTMDJ8AH

Coursera has confirmed the identity of this individual and their participation in the course.



Jan 25, 2022

veekshah rao ponugoti

has successfully completed

**C++ Basic Structures: Vectors, Pointers, Strings,
and Files**

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE
CERTIFICATE



Verify at:
coursera.org/verify/MD7RJ7XHP6CZ

Coursera has confirmed the identity of this individual and their participation in the course.

Swecha

Certificate of Internship

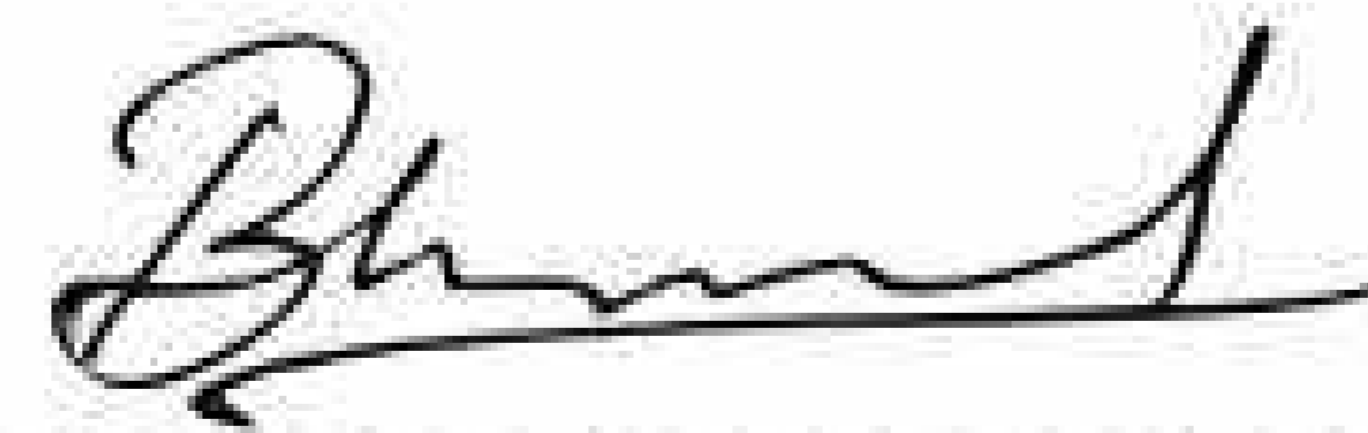
This is to certify that

Sampriti Thummala Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Sanvi Reddy Sama

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032



Nov 19, 2021

SAPHALYA PETA

has successfully completed

Introduction to Java

an online non-credit course authorized by LearnQuest and offered through Coursera

Noel J. Bergman

Noel J. Bergman

Evan Bergman

COURSE
CERTIFICATE



Verify at coursera.org/verify/WWTA8GKBWME9
Coursera has confirmed the identity of this individual and their participation in the course.



Nov 20, 2021

SAPHALYA PETA

has successfully completed

Introduction to Object-Oriented Programming with Java

an online non-credit course authorized by LearnQuest and offered through Coursera

Evan Bergman

Noel J. Bergman

Noel J. Bergman

COURSE
CERTIFICATE



Verify at coursera.org/verify/J53U2GMWTJXM
Coursera has confirmed the identity of this individual and their participation in the course.



Jan 8, 2022

SAPHALYA PETA

has successfully completed

Object-Oriented Hierarchies in Java

an online non-credit course authorized by LearnQuest and offered through Coursera

Evan Bergman

Noel J. Bergman

Noel J. Bergman

COURSE
CERTIFICATE



Verify at coursera.org/verify/WWDVSG2SR8LW
Coursera has confirmed the identity of this individual and their participation in the course.



Oct 19, 2021

Shreya Koka

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE CERTIFICATE



Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

Verify at coursera.org/verify/HHZ8NGY7U5V
Coursera has confirmed the identity of this individual and their participation in the course.



Jan 19, 2022

Shreya Koka

has successfully completed

C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE CERTIFICATE



Verify at coursera.org/verify/9PK8XUWLCE9M
Coursera has confirmed the identity of this individual and their
participation in the course.

Swecha

Certificate of Internship

This is to certify that

Shreya Sriram Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Srihitha Voruganti Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032



Feb 13, 2022

PENUMAKA SUNSHINE

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE
CERTIFICATE



Handwritten signature of Anh Le.

Anh Le
Curriculum Developer
Codio

Handwritten signature of Elise Deitrick.

Elise Deitrick, PhD
VP of Product
Codio

Verify at:
coursera.org/verify/4VKJ9EUKX7DT

Coursera has confirmed the identity of this individual and their participation in the course.



Feb 14, 2022

PENUMAKA SUNSHINE

has successfully completed

C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE CERTIFICATE



Verify at:
coursera.org/verify/BDH9VHWEQ5Z9

Coursera has confirmed the identity of this individual and their participation in the course.



Feb 8, 2022

Varshika Sunkari

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE
CERTIFICATE



Handwritten signature of Anh Le in black ink.

Anh Le
Curriculum Developer
Codio

Handwritten signature of Elise Deitrick in black ink.

Elise Deitrick, PhD
VP of Product
Codio

Verify at:
coursera.org/verify/5ATFP9986GY4

Coursera has confirmed the identity of this individual and their participation in the course.



Jan 12, 2022

Vineela Bellamkonda

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE
CERTIFICATE



Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

Verify at coursera.org/verify/RQH2KQ4JS7G2
Coursera has confirmed the identity of this individual and their participation in the course.



Jan 22, 2022

Vineela Bellamkonda

has successfully completed

C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE CERTIFICATE



Verify at coursera.org/verify/4W3AZ7YQB3HP
Coursera has confirmed the identity of this individual and their
participation in the course.



Sep 26, 2021

Yashasvi chanda

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE
CERTIFICATE



Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

Verify at coursera.org/verify/USZEEFR4MR3F
Coursera has confirmed the identity of this individual and their participation in the course.



Jan 22, 2022

Yashasvi chanda

has successfully completed

C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE CERTIFICATE



Verify at coursera.org/verify/TQPCA2LEB7GU
Coursera has confirmed the identity of this individual and their
participation in the course.



Sep 17, 2021

MAROJU AAKASH

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE CERTIFICATE



Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

Verify at:
coursera.org/verify/89M695AWADYT

Coursera has confirmed the identity of this individual and their participation in the course.



Oct 15, 2021

MAROJU AAKASH

has successfully completed

C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE CERTIFICATE



Verify at coursera.org/verify/ZUSGK7TFYSQ9
Coursera has confirmed the identity of this individual and their
participation in the course.



Nov 27, 2021

MAROJU AAKASH

has successfully completed

C++ Object Basics: Functions, Recursion, and Objects

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE CERTIFICATE



Verify at coursera.org/verify/Z86YLE2THVUU
Coursera has confirmed the identity of this individual and their participation in the course.



Feb 11, 2022

MAROJU AAKASH

has successfully completed

Object-Oriented C++: Inheritance and Encapsulation

an online non-credit course authorized by Codio and offered through Coursera

Kevin Noelsaint, Curriculum Developer, Codio
Anh Le, Curriculum Developer, Codio
Elise Deitrick, PhD, VP of Product, Codio

COURSE CERTIFICATE



Verify at:
coursera.org/verify/KYRH9M4BMHN2

Coursera has confirmed the identity of this individual and their participation in the course.

Swecha

Certificate of Internship

This is to certify that

Abhi Ram Pendyala

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Achyuth Reddy Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

AKASH KASAM

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

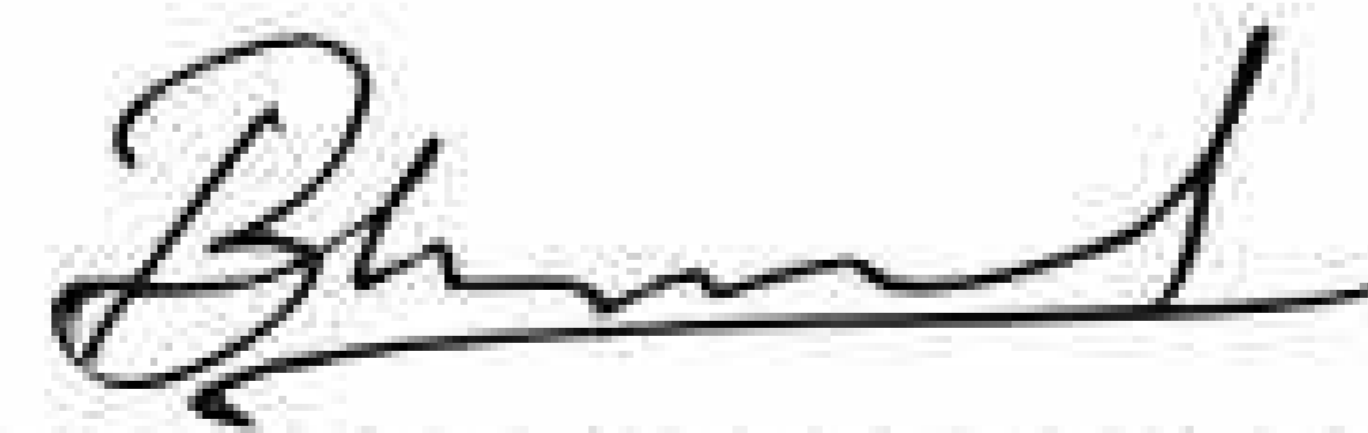
This is to certify that

konda aniketh reddy

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032



Oct 16, 2021

Bharath Varala

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE
CERTIFICATE



Handwritten signature of Anh Le in black ink.

Anh Le
Curriculum Developer
Codio

Handwritten signature of Elise Deitrick in black ink.

Elise Deitrick, PhD
VP of Product
Codio

Verify at coursera.org/verify/SQUSM65JFFHY
Coursera has confirmed the identity of this individual and their
participation in the course.



Dec 5, 2021

Bharath Varala

has successfully completed

C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE CERTIFICATE



Verify at coursera.org/verify/WZFCPBV8JEE7
Coursera has confirmed the identity of this individual and their
participation in the course.



Sep 16, 2021

Somula Bala Chandra Shekar

has successfully completed

C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE
CERTIFICATE



Verify at coursera.org/verify/JR5RYAJTYCPD
Coursera has confirmed the identity of this individual and their
participation in the course.



Sep 15, 2021

Somula Bala Chandra Shekar

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE
CERTIFICATE



Handwritten signature of Anh Le.

Anh Le
Curriculum Developer
Codio

Handwritten signature of Elise Deitrick.

Elise Deitrick, PhD
VP of Product
Codio

Verify at coursera.org/verify/FYMAGP3GNJRL
Coursera has confirmed the identity of this individual and their participation in the course.

Swecha

Certificate of Internship

This is to certify that

Kandula Dinesh

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032



Feb 11, 2022

Kondapally Jagan Anirudh vyas

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE
CERTIFICATE



Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

Verify at:
coursera.org/verify/YEB8W9ACQPG3

Coursera has confirmed the identity of this individual and their participation in the course.



Mar 20, 2022

Kondapally Jagan Anirudh vyas

has successfully completed

C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE
CERTIFICATE



Verify at:
coursera.org/verify/2JR2RDNUWX2M

Coursera has confirmed the identity of this individual and their participation in the course.



Sep 4, 2021

Komal Adithya Reddy

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE CERTIFICATE



Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

Verify at coursera.org/verify/6P6NPDSSC7DU
Coursera has confirmed the identity of this individual and their participation in the course.



Sep 20, 2021

Komal Adithya Reddy

has successfully completed

C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE
CERTIFICATE



Verify at coursera.org/verify/445QVZPRZ4PB
Coursera has confirmed the identity of this individual and their
participation in the course.



Sep 22, 2021

Mohammad Sohail

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE CERTIFICATE



Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

Verify at coursera.org/verify/2CSYG3CQ5R5D
Coursera has confirmed the identity of this individual and their participation in the course.



Oct 31, 2021

Mohammad Sohail

has successfully completed

C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE
CERTIFICATE



Verify at coursera.org/verify/SEDPH4YSLH83
Coursera has confirmed the identity of this individual and their
participation in the course.



Sep 15, 2021

Naga Sai Vivek Kasa

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE
CERTIFICATE



Handwritten signature of Anh Le.

Anh Le
Curriculum Developer
Codio

Handwritten signature of Elise Deitrick.

Elise Deitrick, PhD
VP of Product
Codio

Verify at:
coursera.org/verify/33JEUQYX9EB3

Coursera has confirmed the identity of this individual and their participation in the course.



Oct 7, 2021

Naga Sai Vivek Kasa

has successfully completed

C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE CERTIFICATE



Verify at:
coursera.org/verify/NBZMP55583NY

Coursera has confirmed the identity of this individual and their participation in the course.

Swecha

Certificate of Internship

This is to certify that

naren reddy B

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032



Nov 22, 2021

A Nithin

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE CERTIFICATE



Handwritten signature of Anh Le in black ink.

Anh Le
Curriculum Developer
Codio

Handwritten signature of Elise Deitrick in black ink.

Elise Deitrick, PhD
VP of Product
Codio

Verify at coursera.org/verify/A3M2GK29PFZS
Coursera has confirmed the identity of this individual and their
participation in the course.



Feb 2, 2022

A Nithin

has successfully completed

C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE CERTIFICATE



Verify at:
coursera.org/verify/EFVAGW33YNJ

Coursera has confirmed the identity of this individual and their participation in the course.

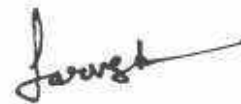
Certificate of Training

NITHIN JERIPOTHULA

from Chaitanya Bharathi Institute of Technology has successfully completed a 6-week online training on **Programming with Python**. The training consisted of Introduction to Python, Using Variables in Python, Basics of Programming in Python, Principles of Object-oriented Programming (OOP), Connecting to SQLite Database, Developing a GUI with PyQt, Application of Python in Various Disciplines, and The Final Project modules.

In the final assessment, NITHIN scored 73% marks.

We wish NITHIN all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-02-07 Certificate no. : 0251C32C-DEC4-D49F-2944-61824DA8AA04

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate



Jan 15, 2022

Rustumpet Nitin Kumar

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE
CERTIFICATE



A handwritten signature in black ink, reading 'Anh Le'.

Anh Le
Curriculum Developer
Codio

A handwritten signature in black ink, reading 'Elise Deitrick'.

Elise Deitrick, PhD
VP of Product
Codio

Verify at coursera.org/verify/GVQN62QDTQEM
Coursera has confirmed the identity of this individual and their
participation in the course.



Jan 30, 2022

Rustumpet Nitin Kumar

has successfully completed

C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE CERTIFICATE



Verify at coursera.org/verify/G65TUQ3EHC8T
Coursera has confirmed the identity of this individual and their
participation in the course.

Swecha

Certificate of Internship

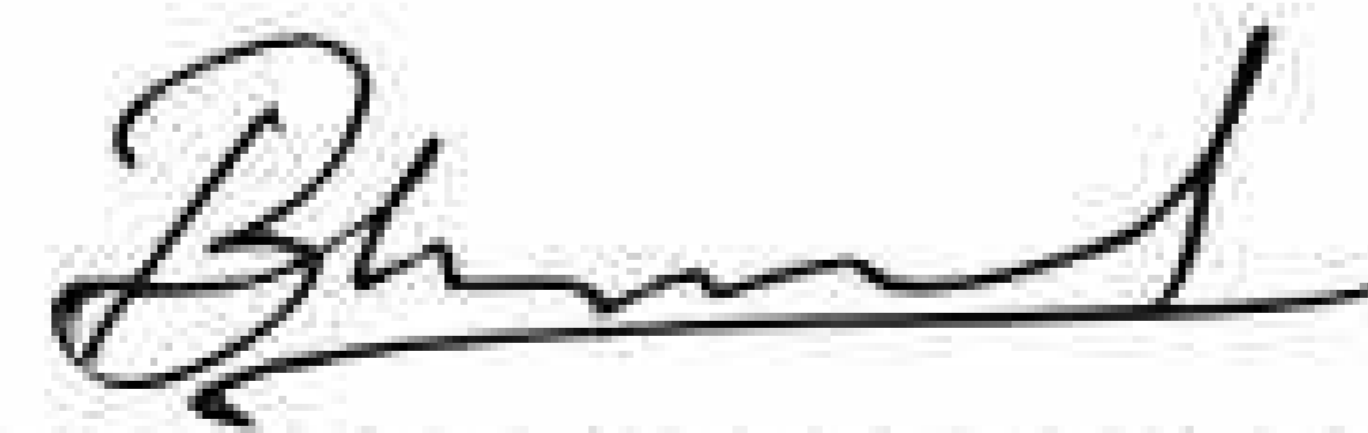
This is to certify that

Prahas Reddy

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032



Nov 18, 2021

Raghav Gupta

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE
CERTIFICATE



Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

Verify at coursera.org/verify/RNZWF9ZU2EED
Coursera has confirmed the identity of this individual and their participation in the course.



Dec 8, 2021

Raghav Gupta

has successfully completed

C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE CERTIFICATE



Verify at coursera.org/verify/GCCGBCE3UJ7Z
Coursera has confirmed the identity of this individual and their
participation in the course.



Nov 10, 2021

YELA RAHUL

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

**COURSE
CERTIFICATE**



Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

Verify at coursera.org/verify/MUM2K8GRSR6Y
Coursera has confirmed the identity of this individual and their participation in the course.



Dec 11, 2021

YELA RAHUL

has successfully completed

**C++ Basic Structures: Vectors, Pointers, Strings,
and Files**

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

**COURSE
CERTIFICATE**



Verify at coursera.org/verify/9PE4NTJCQFQ7
Coursera has confirmed the identity of this individual and their
participation in the course.



Oct 17, 2021

Rayan Ahmed

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE
CERTIFICATE



Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

Verify at:
coursera.org/verify/695NNMXERF2D

Coursera has confirmed the identity of this individual and their participation in the course.



Oct 18, 2021

Rayan Ahmed

has successfully completed

C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE CERTIFICATE



Verify at:
coursera.org/verify/35YUN8J9LDV9

Coursera has confirmed the identity of this individual and their participation in the course.



Oct 14, 2021

Regella Sai Karthik

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE
CERTIFICATE



Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

Verify at:
coursera.org/verify/75K7GZK8LBVL

Coursera has confirmed the identity of this individual and their participation in the course.



Dec 26, 2021

Regella Sai Karthik

has successfully completed

C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Handwritten signature of Anh Le in black ink.

Anh Le
Curriculum Developer
Codio

Handwritten signature of Elise Deitrick in black ink.

Elise Deitrick, PhD
VP of Product
Codio

COURSE CERTIFICATE



Verify at:
coursera.org/verify/3E8YR73F7V48

Coursera has confirmed the identity of this individual and their participation in the course.

Swecha

Certificate of Internship

This is to certify that

Sai Pranay Samanthakurthi

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

SAI TEJA MAREPALLY

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Sriram Chagarlamudi

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

SRITEJA G Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032



Dec 23, 2021

Velpula Sujith Kumar

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE
CERTIFICATE



Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

Verify at coursera.org/verify/9LEWASRTLLAQ
Coursera has confirmed the identity of this individual and their participation in the course.



Jan 25, 2022

Velpula Sujith Kumar

has successfully completed

C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE CERTIFICATE



Verify at coursera.org/verify/DR6B4BNNU9T3
Coursera has confirmed the identity of this individual and their
participation in the course.



Sep 28, 2021

T SUSHANTH REDDY

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE CERTIFICATE



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Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
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Jan 23, 2022

T SUSHANTH REDDY

has successfully completed

**C++ Basic Structures: Vectors, Pointers, Strings,
and Files**

an online non-credit course authorized by Codio and offered through Coursera

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Swecha

Certificate of Internship

This is to certify that

TEJA SAI CHENNA MALLESWAR RAO JAMPANI

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

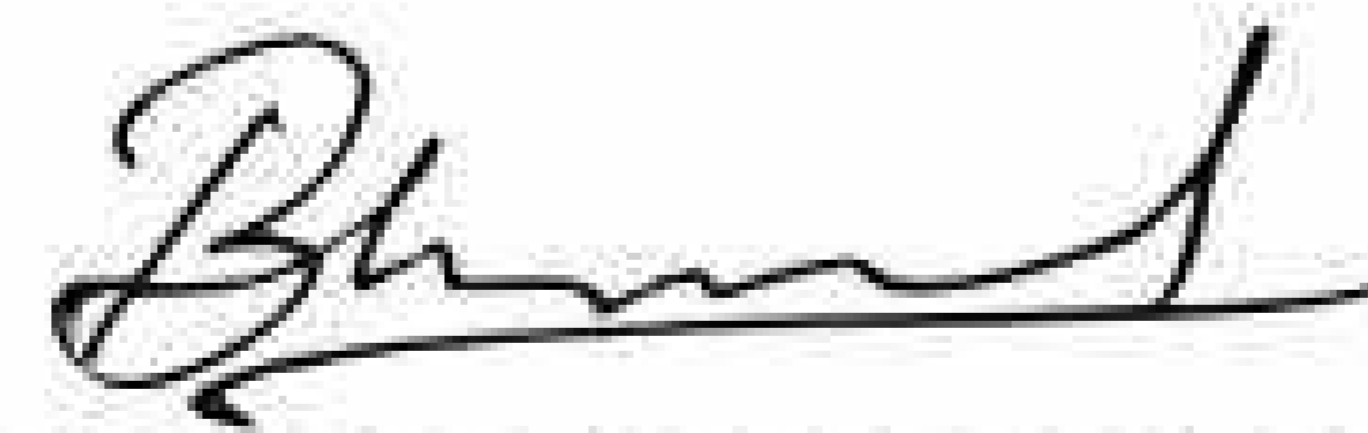
This is to certify that

Uday Kumar Reddy Sama

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
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Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Ch Venkata Koti Reddy Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



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Jan 22, 2022

Vijay Vardhan Reddy Nandikonda

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

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Codio

Elise Deitrick, PhD
VP of Product
Codio

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participation in the course.



Feb 6, 2022

Vijay Vardhan Reddy Nandikonda

has successfully completed

C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
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Codio

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Jan 1, 2022

Gourabattuni Vijaya Venkata Sai

has successfully completed

C++ Basics: Selection and Iteration

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Elise Deitrick, PhD
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Jan 1, 2022

Gourabattuni Vijaya Venkata Sai

has successfully completed

C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
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VP of Product
Codio

COURSE
CERTIFICATE



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Swecha

Certificate of Internship

This is to certify that

Virat Karthikeya Koramati Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

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Madhava Reddy Colony, Gachibowli, Telangana 500032

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS62S13633512

To
VIRAT KARTHIKEYA KORAMATI
8-2-603/1/12, RATHNA NILAYA
ROAD NO 10, BANJARA HILLS
HYDERABAD
TELANGANA - 500034
PH. NO :9912444555



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

VIRAT KARTHIKEYA KORAMATI

for successfully completing the course

Cloud Computing

with a consolidated score of **62** %

Online Assignments	23.54/25	Proctored Exam	38.54/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **3189**

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Aug-Oct 2021
(8 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Certificate of Training

Patcha Kiran Deep

from Chaitanya Bharathi Institute of Technology has successfully completed a 6-week online training on **Machine Learning**. The training consisted of Introduction to Machine Learning, Data, Introduction to Python, Data Exploration and Pre-processing, Linear Regression, Introduction to Dimensionality Reduction, Logistic Regression, Decision Tree, Ensemble Models, and Clustering (Unsupervised Learning) modules.

In the final assessment, Patcha scored 83% marks.

We wish Patcha all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-16

Certificate no. : 9A47D76C-2740-434C-7E22-EB90FF95EF64

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

Swecha

Certificate of Internship

This is to certify that

Ashok Bommena

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

ABSTRACT :

The quiz game is designed to increase learning by requiring students to write a multiple-choice question on each reading assignment and explain why each response is correct or not. To test the game's effects, one developmental psychology class wrote questions with explanations of each response, whereas another class did not write questions. Both classes took pop quizzes composed of the 10 best questions the experimental class wrote. If more than half of the experimental class missed a question, the question written received bonus points. The experimental class had significantly higher quiz scores than the control class, even when grade point averages were statistically controlled. The questions' formal correctness predicted quiz scores, but their conceptual quality did not. Perhaps explaining each response elaborated the experimental students' conceptual network, resulting in improved quiz performance.

CONTENTS :

S No.	TOPIC	Page No.
1.	INTRODUCTION	3
2.	AIM	3
3.	OBJECTIVE	3
4.	EXISTING SYSTEM	3
5.	METHODOLOGY	4
6.	SPECIFICATIONS	4
7.	PROJECT DESIGN	5
8.	SOURCE CODE	8
9.	CONCLUSION	20
10.	FUTURE ENHANCEMENT	20
11.	REFERENCES	20

1.INTRODUCTION :

The 'Quiz Application' project will be developed to overcome the time consuming problem of manual system. Apart from that in current system, checking the answer sheets after taking test, waste the examiners time, so this application will check the correct answer and save the examiner time and carry the examination in an effective manner. The users which are use this system don't need to high computing knowledge and also system will inform them while entering invalid data.

2.AIM :

The aim of this project is to computerized the existing manual system and help the examiners to save their valuable time and important data. Apart from this, data which are exist in this system, will exist for long period of time and will be easy accessible. This project helps the examiners to manage their services in a good way and provide a better service to their users.

3.OBJECTIVE :

The main objective of the project is to make online exams instead of offline exams. This saves time and due to source code added to that, automatically it gives marks after completing the exam. In case of manual exams, teachers should correct the papers, which leads to lots of burden. So, this is a better practise to write on exams.

- To create an appropriate platform for best managing of MCQ test;
- To overcome the time consuming issues and taking MCQ tests;
- To release the marks of the test taker as soon as possible;
- To manage the information of different tests.

4.EXISTING SYSTEM :

There are various quiz applications exist in the internet with different criteria. Each of the existing applications has their own goodness and problems. In this quiz application which is designed and implemented in JSP based we try to overcome the existing problems with following features:

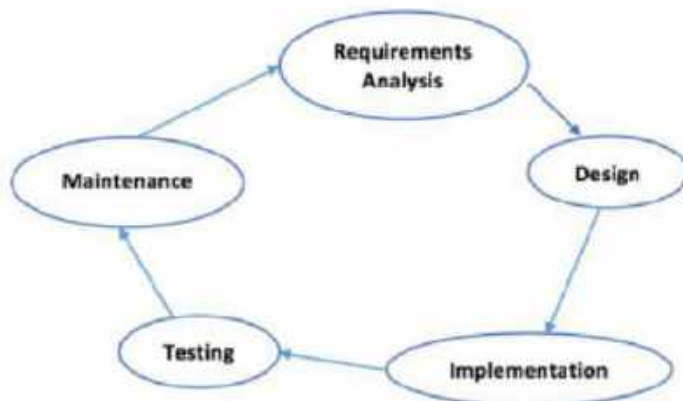
- Remove source confuse issue;
- Better management;
- Connection to database for better storing of data;

- Better frontend management;
- Better backend management;
- Try to decrease error issuer during runtime.

5.METHODOLOGY :

The methodology of developing of project will be a step-by-step sequence to design, develop and deliver the application. In software engineering this methodology called 'waterfall model' which one portion of work follows after another in a linear sequence. Following steps will be followed in this methodology:

- Initiation (Requirement Specification);
- Planning and design;
- Execution (construction and coding);
- Validation (Testing);
- Closure (Installation and Maintenance).



6.SPECIFICATIONS :

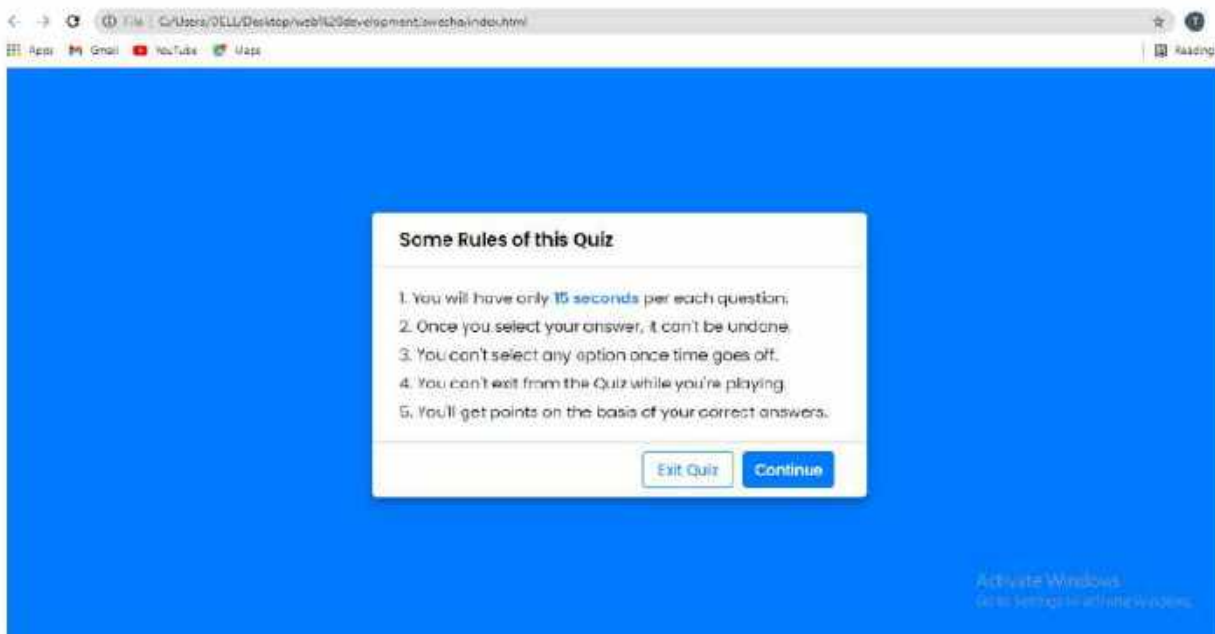
-To play Quiz Time you will need a minimum CPU equivalent to an Intel Core 2 Duo Q6867. Whereas, an Intel Core i3-2340UE is recommended in order to run it. Quiz Time system requirements state that you will need **at least 1 GB of RAM**. Additionally, the game developers recommend somewhere around 2 GB of RAM in your system.

7.PROJECT DESIGN :

For designing and implementing of Online Quiz application we used HTML, CSS, JavaScript. Following pages have been designed using HTML, CSS and JavaScript to handle the defined objective of this project.

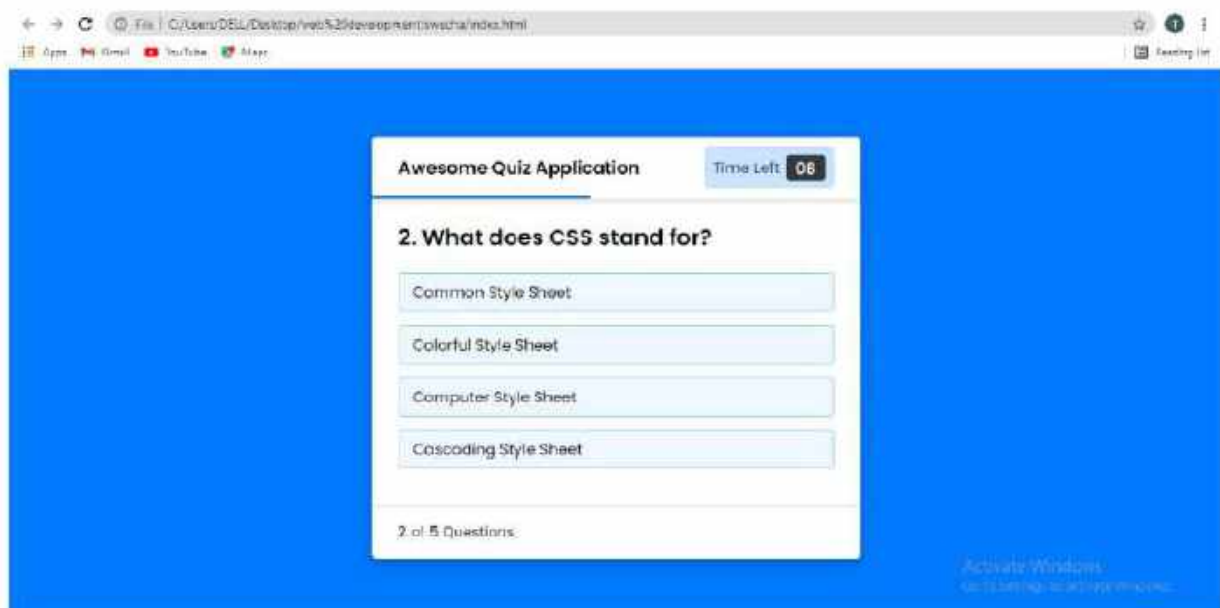
1. INDEX :

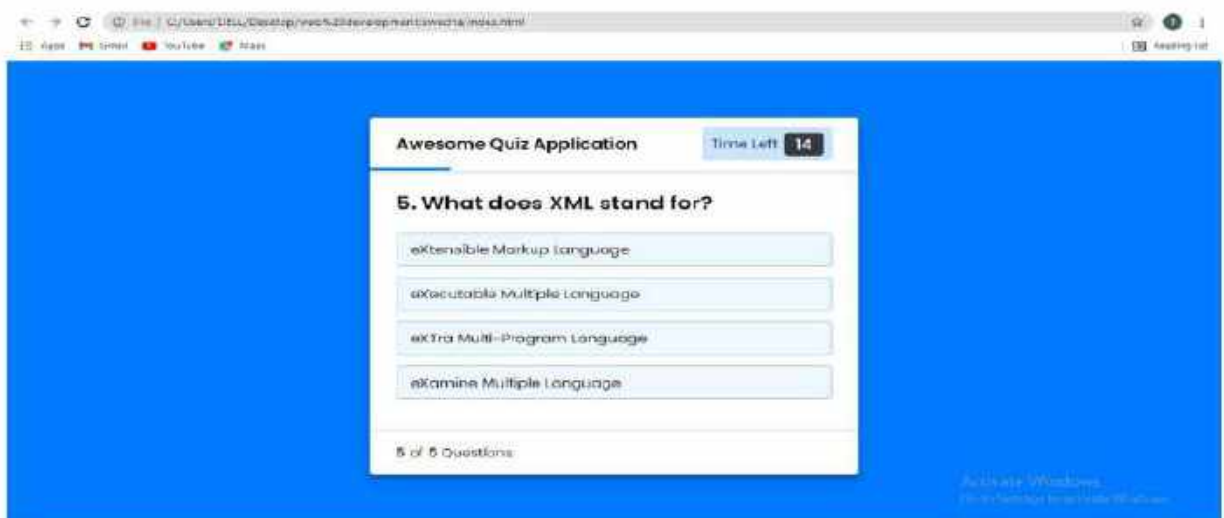
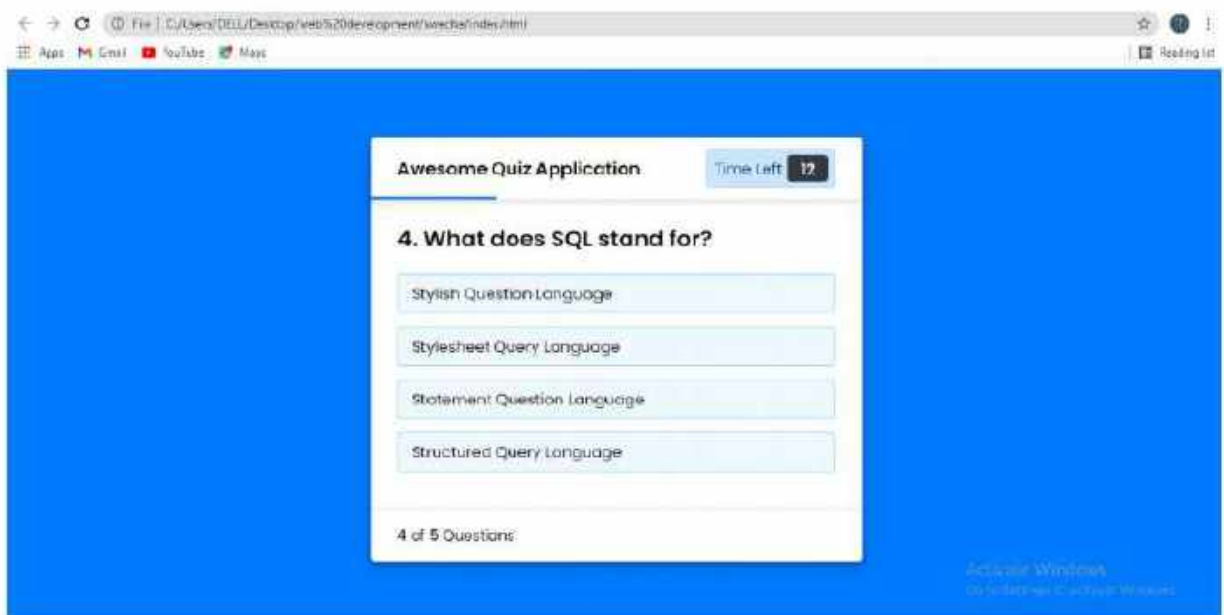
This page asks us to 'start quiz'. If we click on the 'start quiz', it moves on to next page, which contains the instructions of the quiz. At the end of the page, it asks us whether to continue with the quiz or to exit the quiz. If we click on exit game, then the page returns to start quiz page or else, the quiz starts.



2. ATTEMPT QUIZ :

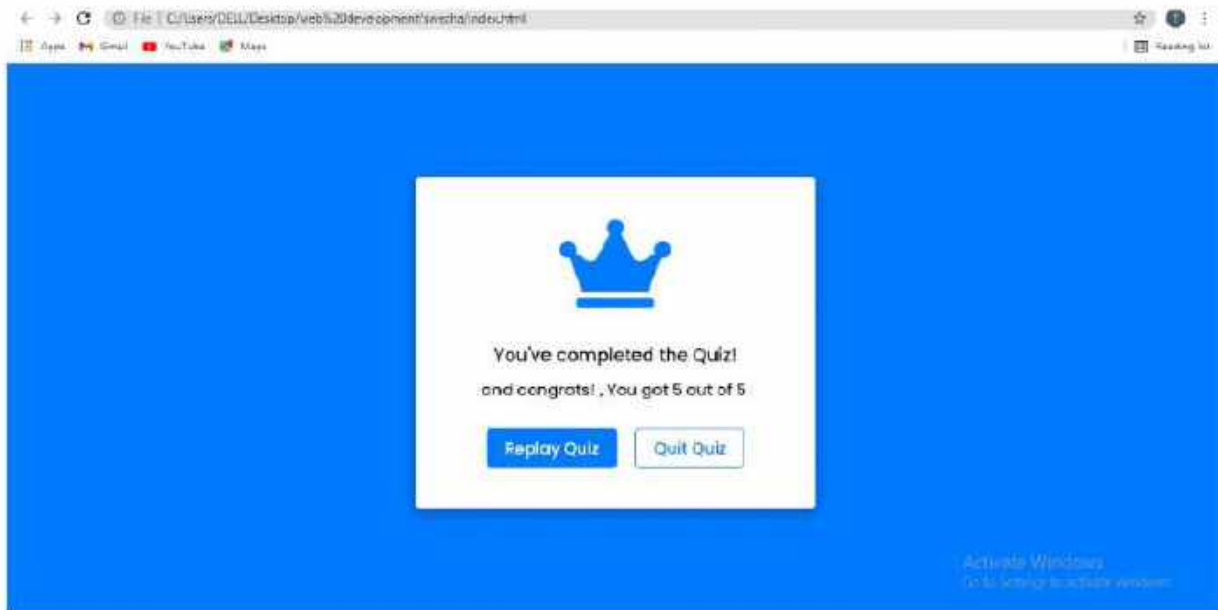
After Clicking on continue, the quiz starts. The quiz contains 5 questions. After clicking the option, automatically we comes to know the correct answer. Even if we dosen't give answer, after 15 seconds we get the answer and moves to next question.





3. RESULT :

After completion of 5 question we get the result of the quiz i.e., marks.



8.SOURCE CODE :

INDEX PAGE : (html code)

```
<!DOCTYPE html>
<!-- Created By CodingNepal - www.codingnepalweb.com -->
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Awesome Quiz App | CodingNepal</title>
  <link rel="stylesheet" href="style.css">
  <!-- FontAweome CDN Link for Icons -->
  <script src="https://kit.fontawesome.com/a076d05399.js"></script>
  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/font-awesome@5.15.3/css/all.min.css"/>
</head>
<body>
  <!-- start Quiz button -->
  <div class="start_btn"><button>Start Quiz</button></div>
  <!-- Info Box -->
  <div class="info_box">
    <div class="info-title"><span>Some Rules of this Quiz</span></div>
    <div class="info-list">
      <div class="info">1. You will have only <span>15 seconds</span> per each
question.</div>
      <div class="info">2. Once you select your answer, it can't be undone.</div>
      <div class="info">3. You can't select any option once time goes off.</div>
    </div>
  </div>
</body>
</html>
```



```

        <div class="info">4. You can't exit from the Quiz while you're
playing.</div>
        <div class="info">5. You'll get points on the basis of your correct
answers.</div>
    </div>
    <div class="buttons">
        <button class="quit">Exit Quiz</button>
        <button class="restart">Continue</button>
    </div>
</div>
<!-- Quiz Box -->
<div class="quiz_box">
    <header>
        <div class="title">Awesome Quiz Application</div>
        <div class="timer">
            <div class="time_left_txt">Time Left</div>
            <div class="timer_sec">15</div>
        </div>
        <div class="time_line"></div>
    </header>
    <section>
        <div class="que_text">
            <!-- Here I've inserted question from JavaScript -->
        </div>
        <div class="option_list">
            <!-- Here I've inserted options from JavaScript -->
        </div>
    </section>
    <!-- footer of Quiz Box -->
    <footer>
        <div class="total_que">
            <!-- Here I've inserted Question Count Number from JavaScript -->
        </div>
        <button class="next_btn">Next Que</button>
    </footer>
</div>
<!-- Result Box -->
<div class="result_box">
    <div class="icon">
        <i class="fas fa-crown"></i>
    </div>
    <div class="complete_text">You've completed the Quiz!</div>
    <div class="score_text">
        <!-- Here I've inserted Score Result from JavaScript -->
    </div>
    <div class="buttons">
        <button class="restart">Replay Quiz</button>
        <button class="quit">Quit Quiz</button>
    </div>
</div>
<!-- Inside this JavaScript file I've inserted Questions and Options only -->
<script src="questions.js"></script>
<!-- Inside this JavaScript file I've coded all Quiz Codes -->
<script src="script.js"></script>
</body>
</html>
</html>

```

DESIGN PAGE : (css code)

```
/* importing google fonts */
@import
url('https://fonts.googleapis.com/css2?family=Poppins:wght@200;300;400;500;600;700&display=swap');
*{
margin: 0;
padding: 0;
border-box: border-box;
font-family: 'Poppins', sans-serif;
}
body{
background: #007bff;
}
::selection{
color: #fff;
background: #007bff;
}
.start_btn,
.info_box,
.quiz_box,
.result_box{
position: absolute;
top: 50%;
left: 50%;
transform: translate(-50%, -50%);
box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2),
0 6px 20px 0 rgba(0, 0, 0, 0.19);
}
.info_box.activeInfo,
.quiz_box.activeQuiz,
.result_box.activeResult{
opacity: 1;
z-index: 5;
pointer-events: auto;
transform: translate(-50%, -50%) scale(1);
}
.start_btn button{
font-size: 25px;
font-weight: 500;
color: #007bff;
padding: 15px 30px;
outline: none;
border: none;
border-radius: 5px;
background: #fff;
cursor: pointer;
}
.info_box{
width: 540px;
background: #fff;
border-radius: 5px;
transform: translate(-50%, -50%) scale(0.9);
opacity: 0;
pointer-events: none;
transition: all 0.3s ease;
}
.info_box .info-title{
height: 60px;
width: 100%;
```

```

border-bottom: 1px solid lightgrey;
display: flex;
align-items: center;
padding: 0 30px;
border-radius: 5px 5px 0 0;
font-size: 20px;
font-weight: 600;
}
.info_box .info-list{
padding: 15px 30px;
}
.info_box .info-list .info{
margin: 5px 0;
font-size: 17px;
}
.info_box .info-list .info span{
font-weight: 600;
color: #007bff;
}
.info_box .buttons{
height: 60px;
display: flex;
align-items: center;
justify-content: flex-end;
padding: 0 30px;
border-top: 1px solid lightgrey;
}
.info_box .buttons button{
margin: 0 5px;
height: 40px;
width: 100px;
font-size: 16px;
font-weight: 500;
cursor: pointer;
border: none;
outline: none;
border-radius: 5px;
border: 1px solid #007bff;
transition: all 0.3s ease;
}
.quiz_box{
width: 550px;
background: #fff;
border-radius: 5px;
transform: translate(-50%, -50%) scale(0.9);
opacity: 0;
pointer-events: none;
transition: all 0.3s ease;
}
.quiz_box header{
position: relative;
z-index: 2;
height: 70px;
padding: 0 30px;
background: #fff;
border-radius: 5px 5px 0 0;
display: flex;
align-items: center;
justify-content: space-between;
box-shadow: 0px 3px 5px 1px rgba(0,0,0,0.1);
}
.quiz_box header .title{
font-size: 20px;

```

```

    font-weight: 600;
}
.quiz_box header .timer{
    color: #004085;
    background: #cce5ff;
    border: 1px solid #b0daff;
    height: 45px;
    padding: 0 8px;
    border-radius: 5px;
    display: flex;
    align-items: center;
    justify-content: space-between;
    width: 145px;
}
.quiz_box header .timer .time_left_txt{
    font-weight: 400;
    font-size: 17px;
    user-select: none;
}
.quiz_box header .timer .timer_sec{
    font-size: 18px;
    font-weight: 500;
    height: 30px;
    width: 45px;
    color: #fff;
    border-radius: 5px;
    line-height: 30px;
    text-align: center;
    background: #343a40;
    border: 1px solid #343a40;
    user-select: none;
}
.quiz_box header .time_line{
    position: absolute;
    bottom: 0px;
    left: 0px;
    height: 3px;
    background: #007bff;
}
section{
    padding: 25px 30px 20px 30px;
    background: #fff;
}
section .que_text{
    font-size: 25px;
    font-weight: 600;
}
section .option_list{
    padding: 20px 0px;
    display: block;
}
section .option_list .option{
    background: aliceblue;
    border: 1px solid #84c5fe;
    border-radius: 5px;
    padding: 8px 15px;
    font-size: 17px;
    margin-bottom: 15px;
    cursor: pointer;
    transition: all 0.3s ease;
    display: flex;
    align-items: center;
    justify-content: space-between;
}

```



```

}
section .option_list .option:last-child{
    margin-bottom: 0px;
}
section .option_list .option:hover{
    color: #004085;
    background: #cce5ff;
    border: 1px solid #b8daff;
}
section .option_list .option.correct{
    color: #155724;
    background: #d4edda;
    border: 1px solid #c3e6cb;
}
section .option_list .option.incorrect{
    color: #721c24;
    background: #f8d7da;
    border: 1px solid #f5c6cb;
}
section .option_list .option.disabled{
    pointer-events: none;
}
section .option_list .option .icon{
    height: 26px;
    width: 26px;
    border: 2px solid transparent;
    border-radius: 50%;
    text-align: center;
    font-size: 13px;
    pointer-events: none;
    transition: all 0.3s ease;
    line-height: 24px;
}
.option_list .option .icon.tick{
    color: #23903c;
    border-color: #23903c;
    background: #d4edda;
}
.option_list .option .icon.cross{
    color: #a42834;
    background: #f8d7da;
    border-color: #a42834;
}
footer{
    height: 60px;
    padding: 0 30px;
    display: flex;
    align-items: center;
    justify-content: space-between;
    border-top: 1px solid lightgrey;
}
footer .total_que span{
    display: flex;
    user-select: none;
}
footer .total_que span p{
    font-weight: 500;
    padding: 0 5px;
}
footer .total_que span p:first-child{
    padding-left: 0px;
}
footer button{

```

```

height: 40px;
padding: 0 13px;
font-size: 18px;
font-weight: 400;
cursor: pointer;
border: none;
outline: none;
color: #fff;
border-radius: 5px;
background: #007bff;
border: 1px solid #007bff;
line-height: 10px;
opacity: 0;
pointer-events: none;
transform: scale(0.95);
transition: all 0.3s ease;
}
footer button:hover{
background: #0263ca;
}
footer button.show{
opacity: 1;
pointer-events: auto;
transform: scale(1);
}
.result_box{
background: #fff;
border-radius: 5px;
display: flex;
padding: 25px 30px;
width: 450px;
align-items: center;
flex-direction: column;
justify-content: center;
transform: translate(-50%, -50%) scale(0.9);
opacity: 0;
pointer-events: none;
transition: all 0.3s ease;
}
.result_box .icon{
font-size: 100px;
color: #007bff;
margin-bottom: 10px;
}
.result_box .complete_text{
font-size: 20px;
font-weight: 500;
}
.result_box .score_text span{
display: flex;
margin: 10px 0;
font-size: 18px;
font-weight: 500;
}
.result_box .score_text span p{
padding: 0 4px;
font-weight: 600;
}
.result_box .buttons{
display: flex;
margin: 20px 0;
}
.result_box .buttons button{

```

```

margin: 0 10px;
height: 45px;
padding: 0 20px;
font-size: 18px;
font-weight: 500;
cursor: pointer;
border: none;
outline: none;
border-radius: 5px;
border: 1px solid #007bff;
transition: all 0.3s ease;
}
.buttons button.restart{
color: #fff;
background: #007bff;
}
.buttons button.restart:hover{
background: #0263ca;
}
.buttons button.quit{
color: #007bff;
background: #fff;
}
.buttons button.quit:hover{
color: #fff;
background: #007bff; }

```

QUESTIONS PAGE : (js questions code)

```

let questions = [
  {
    numb: 1,
    question: "What does HTML stand for?",
    answer: "Hyper Text Markup Language",
    options: [
      "Hyper Text Preprocessor",
      "Hyper Text Markup Language",
      "Hyper Text Multiple Language",
      "Hyper Tool Multi Language"
    ]
  },
  {
    numb: 2,
    question: "What does CSS stand for?",
    answer: "Cascading Style Sheet",
    options: [
      "Common Style Sheet",
      "Colorful Style Sheet",
      "Computer Style Sheet",
      "Cascading Style Sheet"
    ]
  },
  {
    numb: 3,
    question: "What does PHP stand for?",
    answer: "Hypertext Preprocessor",
    options: [
      "Hypertext Preprocessor",
      "Hypertext Programming",
      "Hypertext Preprogramming",
      "Hcmetext Preprocessor"
    ]
  }
]

```

```

    ]
  },
  {
    numb: 4,
    question: "What does SQL stand for?",
    answer: "Structured Query Language",
    options: [
      "Stylish Question language",
      "Stylesheet Query Language",
      "Statement Question Language",
      "Structured Query Language"
    ]
  },
  {
    numb: 5,
    question: "What does XML stand for?",
    answer: "eXtensible Markup Language",
    options: [
      "eXtensible Markup Language",
      "eXecutable Multiple Language",
      "eXtra Multi-Program Language",
      "eXamine Multiple language"
    ]
  }
],
// you can uncomment the below codes and make duplicate as more as you want to add
question
// but remember you need to give the numb value serialise like 1,2,3,5,6,7,8,9....
// (
//   numb: 6,
//   question: "Your Question is Here",
//   answer: "Correct answer of the question is here",
//   options: [
//     "Option 1",
//     "option 2",
//     "option 3",
//     "option 4"
//   ]
// ),
];

```

SCRIPT PART : (js code)

```

//selecting all required elements
const start_btn = document.querySelector(".start_btn button");
const info_box = document.querySelector(".info_box");
const exit_btn = info_box.querySelector(".buttons .quit");
const continue_btn = info_box.querySelector(".buttons .restart");
const quiz_box = document.querySelector(".quiz_box");
const result_box = document.querySelector(".result_box");
const option_list = document.querySelector(".option_list");
const time_line = document.querySelector("header .time_line");
const timeText = document.querySelector(".timer .time_left_txt");
const timeCount = document.querySelector(".timer .timer_sec");
// if startQuiz button clicked
start_btn.onclick = ()=>{
  info_box.classList.add("activeInfo"); //show info box
}
// if exitQuiz button clicked
exit_btn.onclick = ()=>{
  info_box.classList.remove("activeInfo"); //hide info box
}

```



```

// if continueQuiz button clicked
continue_btn.onclick = ()=>{
    info_box.classList.remove("activeInfo"); //hide info box
    quiz_box.classList.add("activeQuiz"); //show quiz box
    showQuestions(0); //calling showQuestions function
    queCounter(1); //passing i parameter to queCounter
    startTimer(15); //calling startTimer function
    startTimerLine(0); //calling startTimerLine function
}
let timeValue = 15;
let que_count = 0;
let que_numb = 1;
let userScore = 0;
let counter;
let counterLine;
let widthValue = 0;
const restart_quiz = result_box.querySelector(".buttons .restart");
const quit_quiz = result_box.querySelector(".buttons .quit");
// if restartQuiz button clicked
restart_quiz.onclick = ()=>{
    quiz_box.classList.add("activeQuiz"); //show quiz box
    result_box.classList.remove("activeResult"); //hide result box
    timeValue = 15;
    que_count = 0;
    que_numb = 1;
    userScore = 0;
    widthValue = 0;
    showQuestions(que_count); //calling showQuestions function
    queCounter(que_numb); //passing que_numb value to queCounter
    clearInterval(counter); //clear counter
    clearInterval(counterLine); //clear counterLine
    startTimer(timeValue); //calling startTimer function
    startTimerLine(widthValue); //calling startTimerLine function
    timeText.textContent = "Time Left"; //change the text of timeText to Time Left
    next_btn.classList.remove("show"); //hide the next button
}
// if quitQuiz button clicked
quit_quiz.onclick = ()=>{
    window.location.reload(); //reload the current window
}
const next_btn = document.querySelector("footer .next_btn");
const bottom_que_counter = document.querySelector("footer .total_que");
// if Next Que button clicked
next_btn.onclick = ()=>{
    if(que_count < questions.length - 1){ //if question count is less than total
question length
        que_count++; //increment the que_count value
        que_numb++; //increment the que_numb value
        showQuestions(que_count); //calling showQuestions function
        queCounter(que_numb); //passing que_numb value to queCounter
        clearInterval(counter); //clear counter
        clearInterval(counterLine); //clear counterLine
        startTimer(timeValue); //calling startTimer function
        startTimerLine(widthValue); //calling startTimerLine function
        timeText.textContent = "Time Left"; //change the timeText to Time Left
        next_btn.classList.remove("show"); //hide the next button
    }else{
        clearInterval(counter); //clear counter
        clearInterval(counterLine); //clear counterLine
        showResult(); //calling showResult function
    }
}
// getting questions and options from array

```

```

function showQuestions(index) {
    const que_text = document.querySelector(".que_text");
    //creating a new span and div tag for question and option and passing the value
    using array index
    let que_tag = '<span>'+ questions[index].numb + ". " + questions[index].question
    + '</span>';
    let option_tag = '<div class="option"><span>'+ questions[index].options[0]
    + '</span></div>'
    + '<div class="option"><span>'+ questions[index].options[1] + '</span></div>'
    + '<div class="option"><span>'+ questions[index].options[2] + '</span></div>'
    + '<div class="option"><span>'+ questions[index].options[3] + '</span></div>';
    que_text.innerHTML = que_tag; //adding new span tag inside que_tag
    option_list.innerHTML = option_tag; //adding new div tag inside option_tag

    const option = option_list.querySelectorAll(".option");
    // set onclick attribute to all available options
    for(i=0; i < option.length; i++){
        option[i].setAttribute("onclick", "optionSelected(this)");
    }
}
// creating the new div tags which for icons
let tickIconTag = '<div class="icon tick"><i class="fas fa-check"></i></div>';
let crossIconTag = '<div class="icon cross"><i class="fas fa-times"></i></div>';
//if user clicked on option
function optionSelected(answer){
    clearInterval(counter); //clear counter
    clearInterval(counterLine); //clear counterLine
    let userAns = answer.textContent; //getting user selected option
    let correcAns = questions[que_count].answer; //getting correct answer from array
    const allOptions = option_list.children.length; //getting all option items

    if(userAns == correcAns){ //if user selected option is equal to array's correct
    answer
        userScore += 1; //upgrading score value with 1
        answer.classList.add("correct"); //adding green color to correct selected
    option
        answer.insertAdjacentHTML("beforeend", tickIconTag); //adding tick icon to
    correct
    selected option
        console.log("Correct Answer");
        console.log("Your correct answers = " + userScore);
    }else{
        answer.classList.add("incorrect"); //adding red color to correct selected
    option
        answer.insertAdjacentHTML("beforeend", crossIconTag); //adding cross icon to
    correct
    selected option
        console.log("Wrong Answer");
        for(i=0; i < allOptions; i++){
            if(option_list.children[i].textContent == correcAns){ //if there is an
            option
            which is matched to an array answer
                option_list.children[i].setAttribute("class", "option correct");
            //adding green color to matched option
                option_list.children[i].insertAdjacentHTML("beforeend", tickIconTag);
            //adding tick icon to matched option
                console.log("Auto selected correct answer.");
            }
        }
    }
    for(i=0; i < allOptions; i++){
        option_list.children[i].classList.add("disabled"); //once user select an option
    then disabled all options
    }
    next_btn.classList.add("show"); //show the next button if user selected any option
}

```

```

function showResult(){
    info_box.classList.remove("activeInfo"); //hide info box
    quiz_box.classList.remove("activeQuiz"); //hide quiz box
    result_box.classList.add("activeResult"); //show result box
    const scoreText = result_box.querySelector(".score_text");
    if (userScore > 3){ // if user scored more than 3
        //creating a new span tag and passing the user score number and total question
        number
        let scoreTag = '<span>and congrats! , You got <p>'+ userScore +'</p> out of
        <p>'+ questions.length +'</p></span>';
        scoreText.innerHTML = scoreTag; //adding new span tag inside score_Text
    }
    else if (userScore > 1){ // if user scored more than 1
        let scoreTag = '<span>and nice , You got <p>'+ userScore +'</p> out of <p>'+
        questions.length +'</p></span>';
        scoreText.innerHTML = scoreTag;
    }
    else{ // if user scored less than 1
        let scoreTag = '<span>and sorry , You got only <p>'+ userScore +'</p> out of
        <p>'+ questions.length +'</p></span>';
        scoreText.innerHTML = scoreTag;
    }
}
function startTimer(time){
    counter = setInterval(timer, 1000);
    function timer(){
        timeCount.textContent = time; //changing the value of timeCount with time value
        time--; //decrement the time value
        if(time < 9){ //if timer is less than 9
            let addZero = timeCount.textContent;
            timeCount.textContent = "0" + addZero; //add a 0 before time value
        }
        if(time < 0){ //if timer is less than 0
            clearInterval(counter); //clear counter
            timeText.textContent = "Time Off"; //change the time text to time off
            const allOptions = option_list.children.length; //getting all option items
            let correcAns = questions[que_count].answer; //getting correct answer from
            array
            for(i=0; i < allOptions; i++){
                if(option_list.children[i].textContent == correcAns){ //if there is an
                option which is matched to an array answer
                    option_list.children[i].setAttribute("class", "option correct");
                    //adding green color to matched option
                    option_list.children[i].insertAdjacentHTML("beforeend",
                    tickIconTag); //adding tick icon to matched option
                    console.log("Time Off: Auto selected correct answer.");
                }
            }
            for(i=0; i < allOptions; i++){
                option_list.children[i].classList.add("disabled"); //once user select
                an option then disabled all options
            }
            next_btn.classList.add("show"); //show the next button if user selected any
            option
        }
    }
}
function startTimerLine(time){
    counterLine = setInterval(timer, 20);
    function timer(){
        time += 1; //upgrading time value with 1
        time_line.style.width = time + "px"; //increasing width of time_line with px by
        time value
    }
}

```



```

        if(time > 549){ //if time value is greater than 549
            clearInterval(counterLine); //clear counterLine
        }
    }
}
function queCounter(index){
    //creating a new span tag and passing the question number and total question
    let totalQueCounTag = '<span><p>'+ index +'</p> of <p>'+ questions.length +'</p>
Questions</span>';
    bottom_ques_counter.innerHTML = totalQueCounTag; //adding new span tag inside
bottom_ques_counter }

```

9.CONCLUSION :

By this project, we have successfully explored our idea about online classes. Also, we have implemented the html, css and javascript. By this, we can easily know the marks immediately after completion of exam and no more manual correction is required.

10.FUTURE ENHANCEMENT :

In this project it is only for MCQ test but in the future we have plan to extended it to support subjective type of questions with more functionality. We will add Administrative part on it which able the system to delete test, add user, delete user and so on graphically vie the web.

11.REFERENCES :

1. Nelson, Pam (2007-11-05). ["Take a Triangle Grammar Guide quiz". *The News & Observer*. Archived from *the original* on April 26, 2013. Retrieved November 28, 2010.](#)

Swecha

Certificate of Internship

This is to certify that

Srinivas Gadham

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032



**SWECHA INTERNSHIP WEB DEVELOPMENT
PROJECT REPORT
GROUP PROJECT
Cooking Recipe Management System**



**DEPARTMENT OF COMPUTER SCIENCE AND
ENGINEERING**

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY
(AUTONOMOUS)**

TEAM 32

NAME	ROLL NO.
Abhinav Tej	160120748022
Yalla Sai Keertana	160120733130
Rakesh Reddy	160120732112
Rishika Reddy	160120737009
Rishitha	160120734073
Sai Sripadh Varma	160120748049
Srinivas	160120748315
Varshitha Minumula	160120748021

TABLE OF CONTENTS:

- **ACKNOWLEDGEMENT**
- **ABSTRACT**
- **SOURCE CODE**
- **COMPANY BACKGROUND**
- **RESPONSIBILITY & WORK COMPLETED**
- **SKILLS LEARNED & EXPERIENCE GAINED**
- **CONCLUSION**

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I would like to extend my gratitude to the principal for providing me with all the facilities that were required to do our project.

ABSTRACT

Cooking is the most talented one where every one cannot do it. for some of them cooking is hobbies and for some of the it is time pass.

The manually work is the these people have to get knowledge or information from different kind of sources like books, people, etc. But these is very difficult to find out answers for queries of about their issues.

So from this Cooking Recipe Management System project we are giving ultimate solution for all of them that is we are making website where each and every one check and see the website.

These website don' t required any username and password. so every one can see the website. and our website is contain about the food items with irrespective of the region or country.

All kind of items are displayed on the websites. so our website is open for any one with irrespective of country and region.

SOURCE CODE

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<!DOCTYPE HTML>
<head>
<title> HOMEPAGE</title>
<meta charset="UTF- 8" >
</head>
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- wall- 3d- rendering- picture-
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splash- picture-
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4ptcsH_nX7V- YJ34TlcvZeUc7ZnPOpJR04=');" ; align="center"
width="100%" height="150" >
  <tr>

    <td span style="text- align: center;" >
      <center><strong><font color ="white"><em><font
size="10"></em> &emsp;&emsp; &emsp;&emsp;
&emsp;&emsp;DELISH</font></font></strong></center>
    </td>
    <td>
      <center> <a href="subscribe.html"><button
type="button">SUBSCRIBE</button></a></center> </td>
      <td><center> <a href ="joinus (1).html"><button
type="button"> JOIN US</button></a></center></td>
      <td><a href ="#cuisines"><button type="button">
CUISINES</button></a></td>
    </tr>
  </table>
<br><br><br><br><br><br><br>
<center></center><br><br><br><br><br><br><br>
<font color="white"><font size="5"><h3><u>ABOUT US</u></h3>
  <b>DELISH</b> recipes is here to help you cook delicious meals
  with less stress and more joy. We offer recipes over a wide range of
  cuisines <b><i>for Home Cooks, by Home Cooks.</i></b><br>
  Helping create "kitchen wins" is what we're all about. Delish
  Recipes was founded in 2021 as a home cooking blog to record our
  favorite recipes from different cuisines.
```

```
Your kitchen is a place to be creative and productive. Meals are
meant to be savored and enjoyed. Good food is simple, fresh,
seasonal and delicious.<br> Delish is a tool for helping you eat well
and enjoy the process of cooking real, good food.
```

```
This blog is ever changing, evolving and growing but the one
thing that remains constant is how happy it makes us to read
comments and emails from you, the reader. Feel free to write to us
on any of the online platforms.
```

```
<i>Thank you for visiting our page :)</i></font></font><br>
<br><br>
```

```
<center><font size="5" color="white"><h2 id="cuisines">CHOOSE
THE CUISINE</h2></font>
```

```
<label><br>
```

```
&emsp; &emsp; &emsp; <a href="italian
cuisine.html"target="_blank">ITALIAN
DISHES</a></label><br><br>
```

```
<br>
```

```
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dishes.html"target="_blank" >INDIAN DISHES</a><br><br>
```

```
<label><br>
```

```
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href="ThaiCuisine.html"target="_blank">THAI
```



```
DISHES</a></label><br><br><br><br>
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```

```
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opacity:1" />
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opacity:1" />
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<center> <h2>FOOD PHOTOGRAPHY
CONTEST!!</h2></center>

 Its time to showcase your
talent in food photography !(Make sure it makes the judge's mouth
water!;!;))

 ELIGIBILITY CRITERIA: Open to
all!

 COPYRIGHTS AND USAGE
RIGHTS: Copyrights and ownership of the works are retained by the
photographer.

The participating images will be available to Delish to access
and can and only be used for advertisement and marketing purpose
but by providing adequate credits to the photographer.

 DEADLINE: 15th November
2021

 Enter your email id and submit your
work as jpg/jpeg files using the submit option below.

You will be contacted through the entered email if your work is
selected for the next round.

Details of further rounds will be intimated to the selected
candidates through emails.

<form action="thxhome.html">
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<h3>SUBMIT YOUR FILE HERE</h3>
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COMPANY BACKGROUND

Swecha is a non-profit organisation formerly called as Free Software Foundation Andhra Pradesh (FSF- AP) later changed name to Swecha. It is a Telugu Operating System released in the year 2005, and is a part of Free Software Movement of India

(FSMI).The organisation is a social movement working towards educating the masses with the essence of Free Software and to provide knowledge to the commoners.

Swecha aims at providing global software solutions to the local people with the Free Software development model by working together with the community of developers and users all over. The prime objective of Swecha OS is to provide a complete computing solution to a population that speaks and understands only Telugu.

RESPONSIBILITY & WORK COMPLETED

The responsibilities of a project manager include:

1. Planning the project

2. Creating a schedule and timeline
3. Executing each phase
4. Managing the budget
5. Serving as the liaison among all stakeholders
6. Troubleshooting And maintenance.

SKILLS LEARNED & EXPERIENCE GAINED

- From the four weeks of internship we have learnt HTML,JS and CSS.
- We also learned Basics of Python and Web Architecture.

- We learned how to divide and manage the work and learn from each other. Team management

CONCLUSION

In previous people use to display the cooking items in the newspapers ,books,magazines etc. If they want to know about any

new items then they used to search books ,articles ,newspaper and ask others.As these will be manually and people use to face difficulty in sharing their information.The sharing of the cookie items makes the problems for common people ,business ,hotels also.

We are creating a application which will be hosted in web. so everyone can access the details from anywhere of the world. So this makes easier to everyone. The Cooking Recipe Management System application is the website will be hosted in internet.

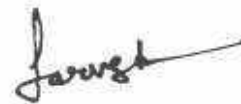
From our website we can solve the issue which are existing in the previous time. By these website we are going to make or bring different kind of food items in one place and make the user to share their knowledge to other and know about the different food items

Certificate of Training

Usama Ahmed

from Chaitanya Bharathi Institute of Technology has successfully completed an 8-week online training on **Web Development**. The training consisted of HTML, CSS, Bootstrap, DBMS, PHP, JS, React, and Final Project modules.

Usama is a top performer in the training.
We wish Usama all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-19

Certificate no. : 97589A2B-9B56-04DA-6306-28B2C91E442E

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

Certificate of Training

VALLAMALLA SHIRISHA

from CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY has successfully completed a 6-week online training on **Machine Learning**. The training consisted of Introduction to Machine Learning, Data, Introduction to Python, Data Exploration and Pre-processing, Linear Regression, Introduction to Dimensionality Reduction, Logistic Regression, Decision Tree, Ensemble Models, and Clustering (Unsupervised Learning) modules.

In the final assessment, VALLAMALLA SHIRISHA scored 41% marks.

We wish VALLAMALLA SHIRISHA all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-24

Certificate no. : E4240B6F-6848-FB49-69B8-012D26578F4F

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

Certificate of Training

VALLAMALLA SHIRISHA

from CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY has successfully completed a 6-week online training on **Machine Learning**. The training consisted of Introduction to Machine Learning, Data, Introduction to Python, Data Exploration and Pre-processing, Linear Regression, Introduction to Dimensionality Reduction, Logistic Regression, Decision Tree, Ensemble Models, and Clustering (Unsupervised Learning) modules.

In the final assessment, VALLAMALLA SHIRISHA scored 41% marks.

We wish VALLAMALLA SHIRISHA all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-24

Certificate no. : E4240B6F-6848-FB49-69B8-012D26578F4F

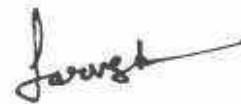
For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

Certificate of Training

Rasuri Nihal Kumar

from CBIT - Chaitanya Bharathi Institute of Technology has successfully completed a 6-week online training on **Data Science**. The training consisted of Introduction to Data Science, Python for Data Science, Understanding the Statistics for Data Science, Predictive Modeling and Basics of Machine Learning, and The Final Project modules.

In the final assessment, Rasuri scored 64% marks.
We wish Rasuri all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-02-11 Certificate no. : 0AF6D09D-37B4-29AA-B2D4-66C2045ADDCD

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate


Certificate of Training

Golla Mohan Krishna

has successfully completed an 8-week online training on **Web Development**. The training consisted of HTML, CSS, Bootstrap, DBMS, PHP, JS, React, and Final Project modules.

In the final assessment, Golla scored 86% marks.

We wish Golla all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-02-05 Certificate no. : F95BDE35-5F2C-7898-C69A-C9A0328B894A

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

Swecha

Certificate of Internship

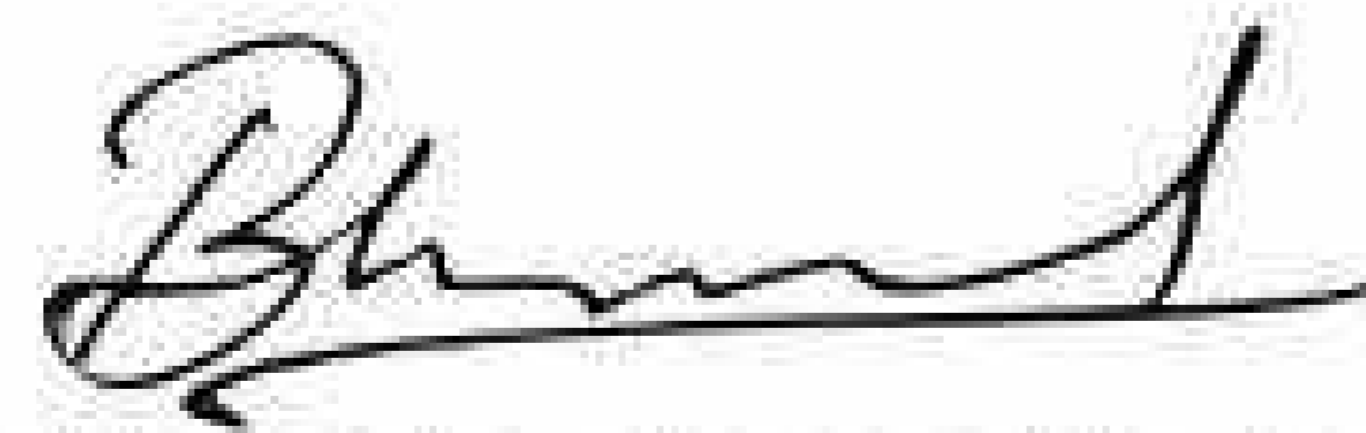
This is to certify that

Afifa Fatima Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Archana Bondapalli

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Roll No: NPTEL21CS86S43635728

To
HARIKA DASARI
FLAT NO.202,SAI MAYURI RESIDENCY
GANDHI NAGAR,RTC CROSS ROADS ,HYDERABAD
HYDERABAD
TELANGANA - 500072
PH. NO :9063771124

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate



No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

HARIKA DASARI

for successfully completing the course

Big Data Computing

with a consolidated score of **40** %

Online Assignments	10.33/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **1394**

6/1/21

Satish



Certificate of Internship

This is to certify that

Mitali Singh

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.

A handwritten signature in black ink, appearing to be "Bhargava", written over a horizontal line.

**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032


Swecha

Certificate of Internship

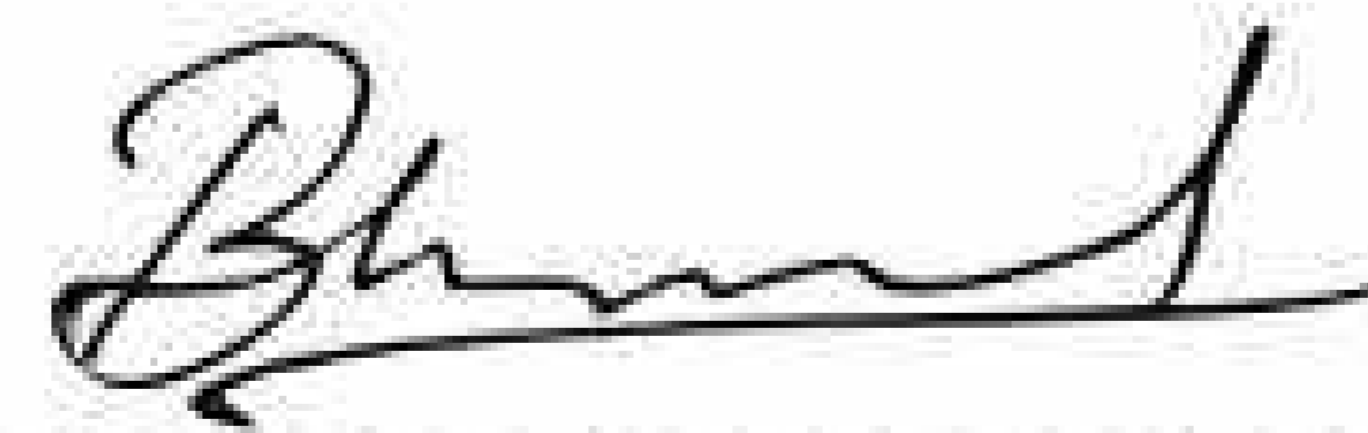
This is to certify that

Mitali Singh Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

MANDADI MOKSHITHA Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Parnashri Nandam

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Pranava Gayathri Aavuti

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

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Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

J PRERANA Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Rishitha Reddy Gudipati

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Sannihitha Navuluru

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13630798

To
KARIPA SATHVIKA
H NO. 2-34, CHITTAPUR, DUBBAK
H NO.12-13-21/11,SIDDIPET,PIN-502103
SIDDIPET (DISTRICT)
TELANGANA - 502108
PH. NO :7993372411



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

KARIPA SATHVIKA

for successfully completing the course

Programming in Java

with a consolidated score of **75** %



Online Assignments	24.6/25	Programming Exam	25/25	Proctored Exam	25/50
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Total number of candidates certified in this course: 2632

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Jul-Oct 2021
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Swecha

Certificate of Internship

This is to certify that

SATHVIKA PAPISHETTI

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

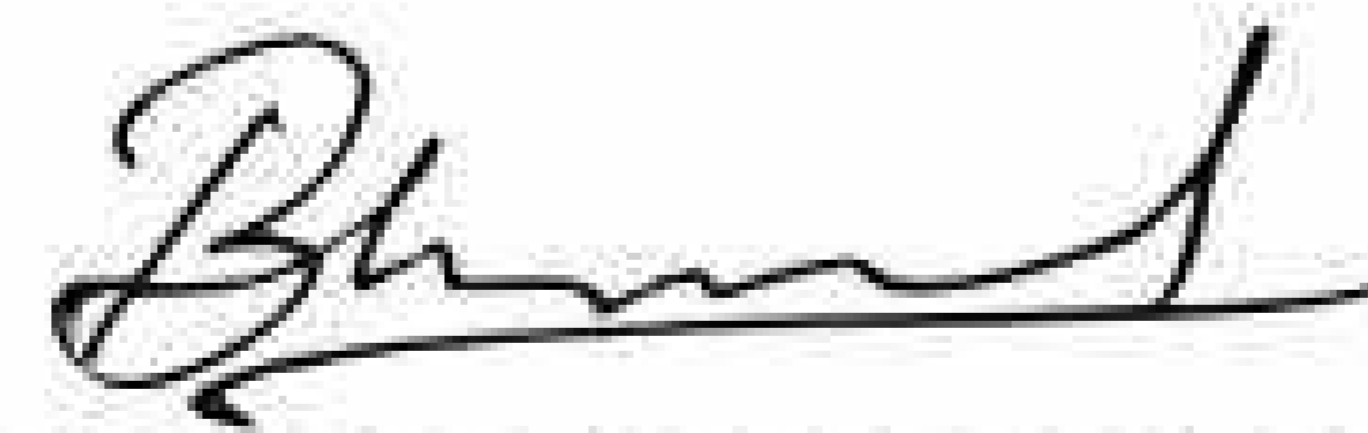
This is to certify that

Sheeba Manukonda

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Sheeba Manukonda

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Sheeba Manukonda

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

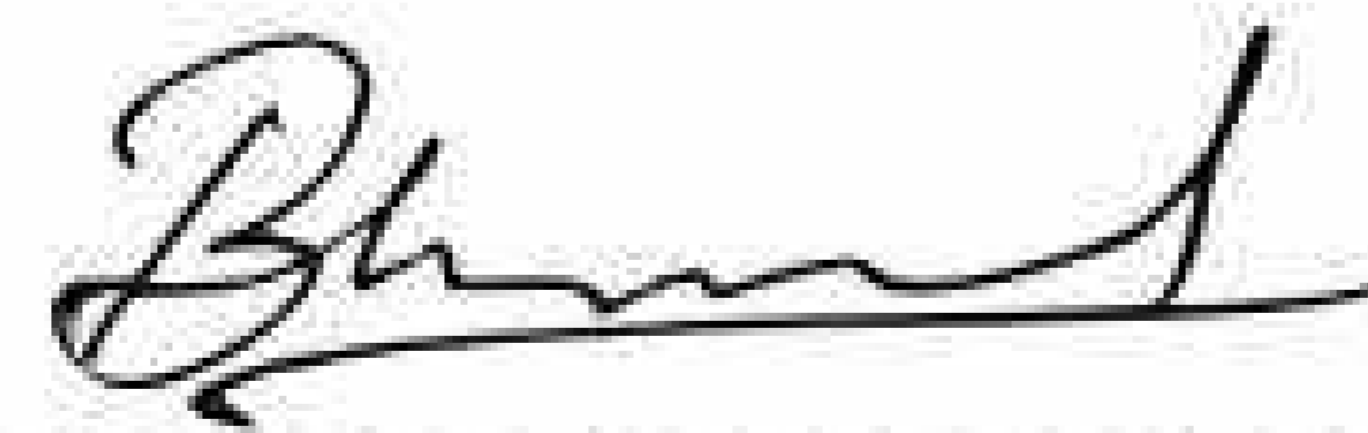
This is to certify that

Sheeba Manukonda

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13633331

To
SHRESTA GUPTA V
EDEN-B 510, LODHA CASA PARADISO
SANATHNAGAR, HYDERABAD
HYDERABAD
TELANGANA - 500018
PH. NO : 8897704989



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

SHRESTA GUPTA V

for successfully completing the course

Programming in Java



with a consolidated score of **90** %

Online Assignments	24.06/25	Programming Exam	25/25	Proctored Exam	41/50
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Total number of candidates certified in this course: **2632**

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Jul-Oct 2021
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Swecha

Certificate of Internship

This is to certify that

A M Snigdha

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13633379

To
SREEJA PAKA
H.NO.19-10-252/1-A-1
RUDRAMANAGAR ROAD NO.03 SHAMBHUNIPET
WARANGAL
TELANGANA - 506002
PH. NO :6304040348



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

SREEJA PAKA

for successfully completing the course

Programming in Java

with a consolidated score of **78** %



Online Assignments	24.5/25	Programming Exam	25/25	Proctored Exam	28.5/50
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Total number of candidates certified in this course: 2649


Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Jul-Oct 2021
(12 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No:NPTEL21CS56S13633379

To validate and check scores: <https://nptel.ac.in/noc/>

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13633089

To
SREYA REDDY ADDULA
H/NO. 7-5-200/13
LAXMI NAGAR COLONY ROAD NO.4
MAHBUBNAGAR
TELANGANA - 509001
PH. NO :8074266479



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
SREYA REDDY ADDULA
for successfully completing the course
Programming in Java



with a consolidated score of **84** %

Online Assignments	24.31/25	Programming Exam	25/25	Proctored Exam	35/50
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Total number of candidates certified in this course: 2632


Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Jul-Oct 2021
(12 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No:NPTEL21CS56S13633089

To validate and check scores: <https://nptel.ac.in/noc/>

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13630774

To
BERUGU SRI SANJANA
HNO 8-71/3 ,RAMAYAMPET
HNO. 3-300001 ,RAMAYAMPET
MEDAK DISTRICT
TELANGANA - 502101
PH. NO :7989071538



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

BERUGU SRI SANJANA

for successfully completing the course

Programming in Java

with a consolidated score of **82** %



Online Assignments	24.6/25	Programming Exam	25/25	Proctored Exam	32/50
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Total number of candidates certified in this course: **2632**

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Jul-Oct 2021
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Swecha

Certificate of Internship

This is to certify that

Sruthika Bachu

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS86S33634564
To
TEJASWI KOPPISETTI
BLOCK-1, 902
MY HOME AVATAR, NARSINGI
HYDERABAD
TELANGANA - 500089
PH. NO :919390300868

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate



No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
TEJASWI KOPPISETTI
for successfully completing the course

Big Data Computing

with a consolidated score of **64** %

Online Assignments	23.88/25	Proctored Exam	40.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 1394

Prof. Rajesh M. Hegde
Chairman, Centre for Continuing Education
IIT Kanpur

Aug-Oct 2021
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Swecha

Certificate of Internship

This is to certify that

VARSHITHA MINUMULA

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

ABHINAV TEJ NAIK MUDE CHOWHAN

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

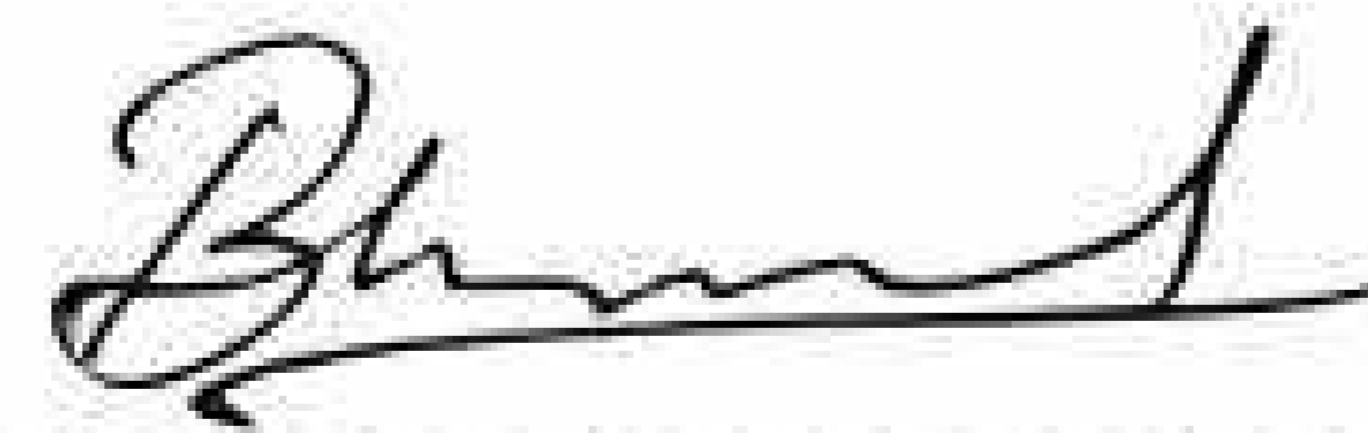
This is to certify that

Desai Aditya Koushik

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Balveer kain Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Chandra Shekar Reddy P

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Certificate of Training

V Siva Chetan Reddy

from Chaitanya Bharathi Institute of Technology (A), Hyderabad has successfully completed a 6-week online training on **Data Science**. The training consisted of Introduction to Data Science, Python for Data Science, Understanding the Statistics for Data Science, Predictive Modeling and Basics of Machine Learning, and The Final Project modules.

V Siva Chetan scored 100% marks in the final assessment and is a top performer in the training.

We wish V Siva Chetan all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-03-12 Certificate no. : DF720DCC-333A-13E9-3728-24C2AD7F88C2

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

Swecha

Certificate of Internship

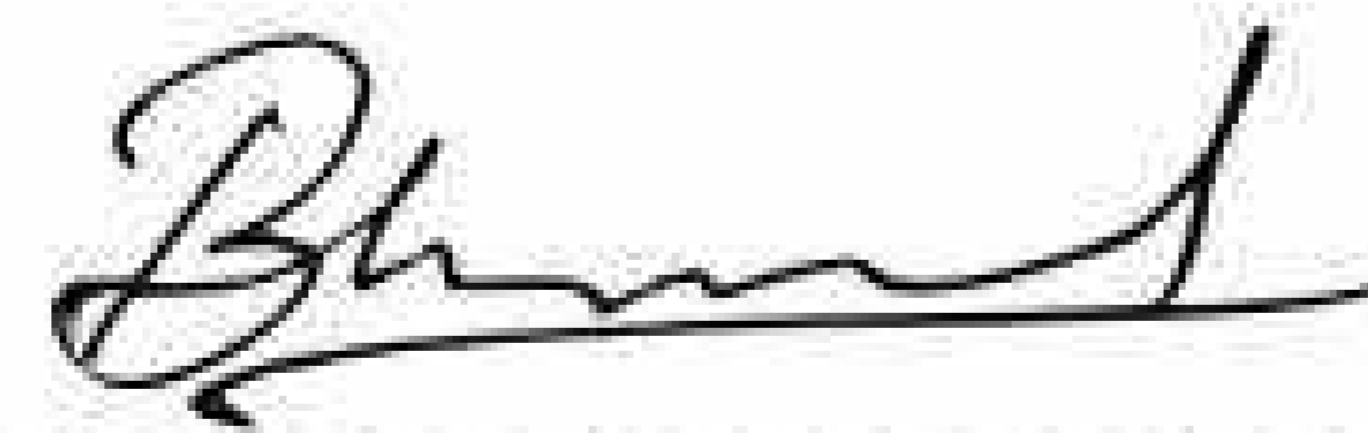
This is to certify that

GOWTHAM SAI MADALA

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Harshit Chokda Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13630726

To
SANGEM KASINATH
4-25,SOLIPURAM
THIRUMALAYAPALEM,KHAMMAM
KHAMMAM
TELANGANA - 507161
PH. NO :9676905136



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

SANGEM KASINATH

for successfully completing the course

Programming in Java

with a consolidated score of **84** %



Online Assignments	24.6/25	Programming Exam	25/25	Proctored Exam	34/50
--------------------	---------	------------------	-------	----------------	-------

Total number of candidates certified in this course: **2649**

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Jul-Oct 2021
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Swecha

Certificate of Internship

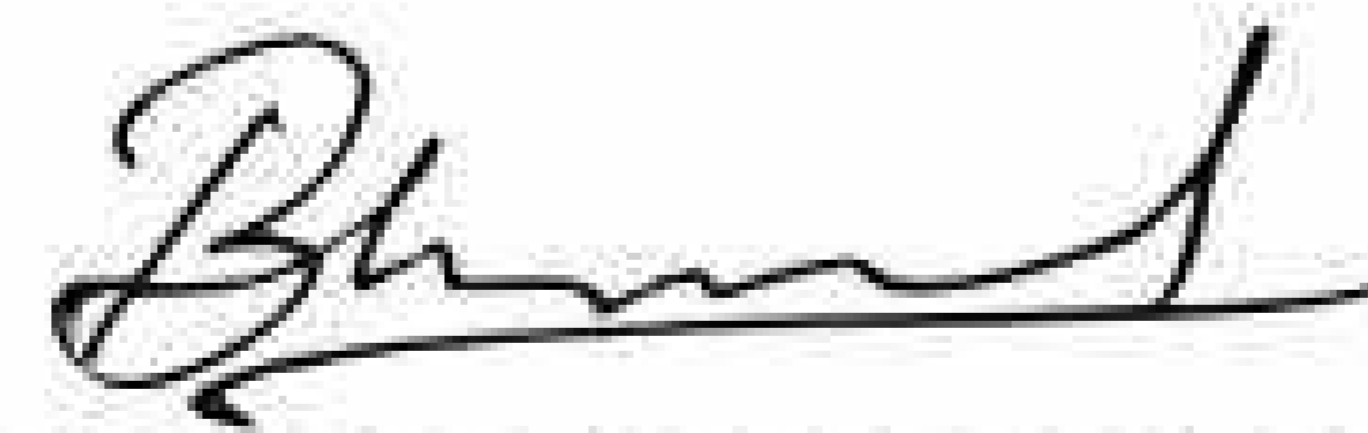
This is to certify that

Ranga Kowshik

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Ranga Kowshik

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Kundan Sai Kotta

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

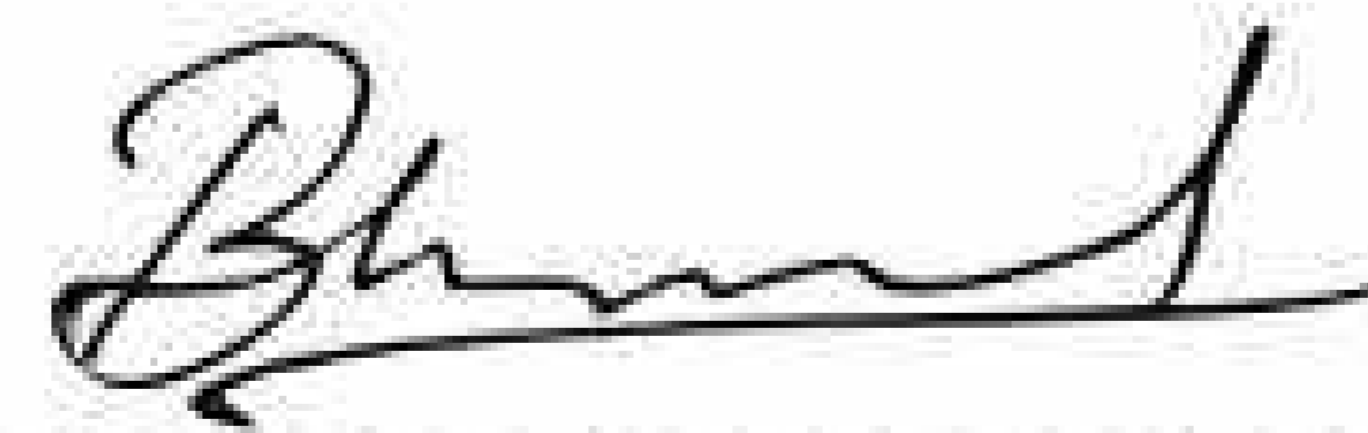
This is to certify that

Likhith Sai Valluru

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Likhith Sai Valluru

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Madireddy Sai Siddarth Reddy Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Manav M

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

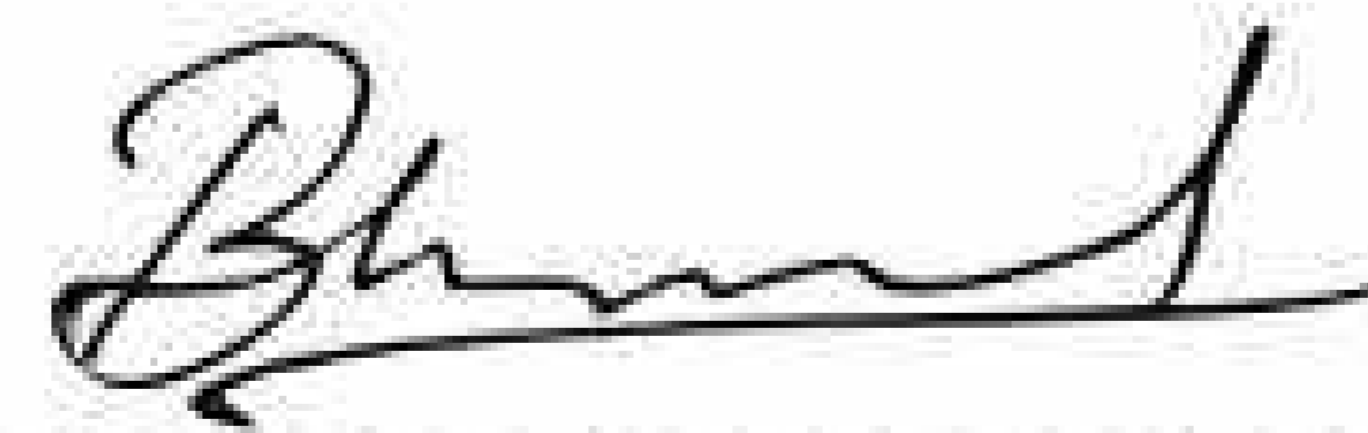
This is to certify that

Mohammed Abdur Rahman

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

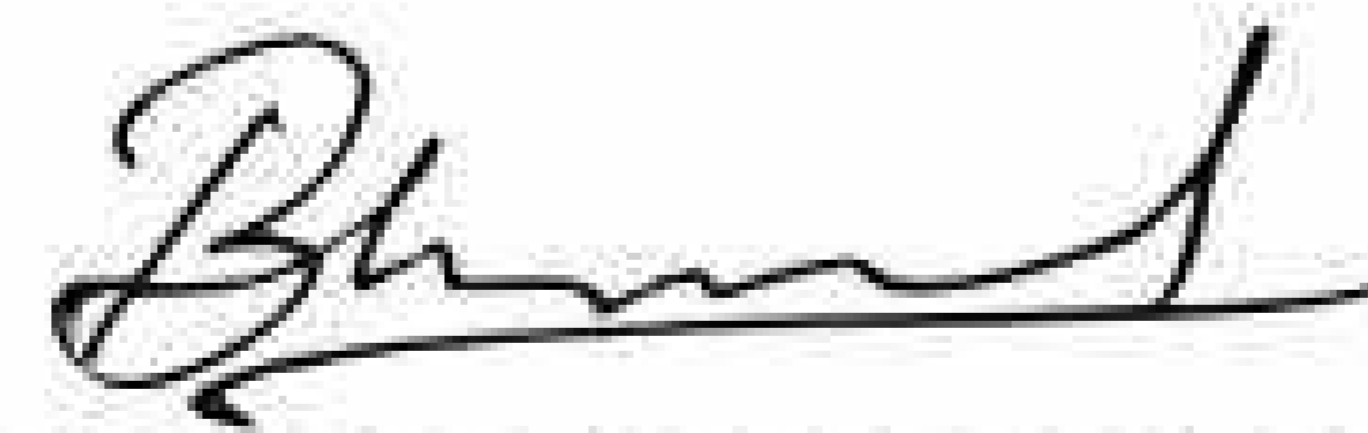
This is to certify that

Mohd Shoeb Ahmed

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

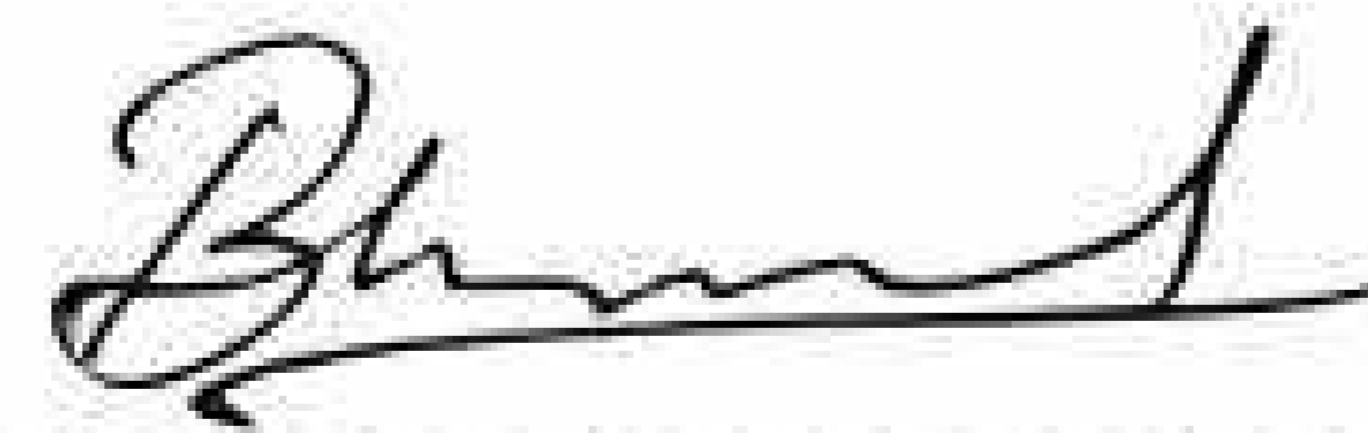
This is to certify that

Mukesh Patel

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13633402

To
RYAKAM NAGA LALITH
H NO-16-11-317/307
TURABIS ARCHIES ENCLAVE, MOOSARAMBAGH
HYDERABAD
TELANGANA - 500036
PH. NO :9704784743



Score	Type of Certificate
≥ 90	Elite+Gold
75-89	Elite+Silver
≥ 60	Elite
40-59	Successfully Completed
< 40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



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Programming in Java



with a consolidated score of **82** %

Online Assignments	24.22/25	Programming Exam	25/25	Proctored Exam	32.5/50
--------------------	----------	------------------	-------	----------------	---------

Total number of candidates certified in this course: 2632


Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Jul-Oct 2021
(12 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL21CS56S13633402

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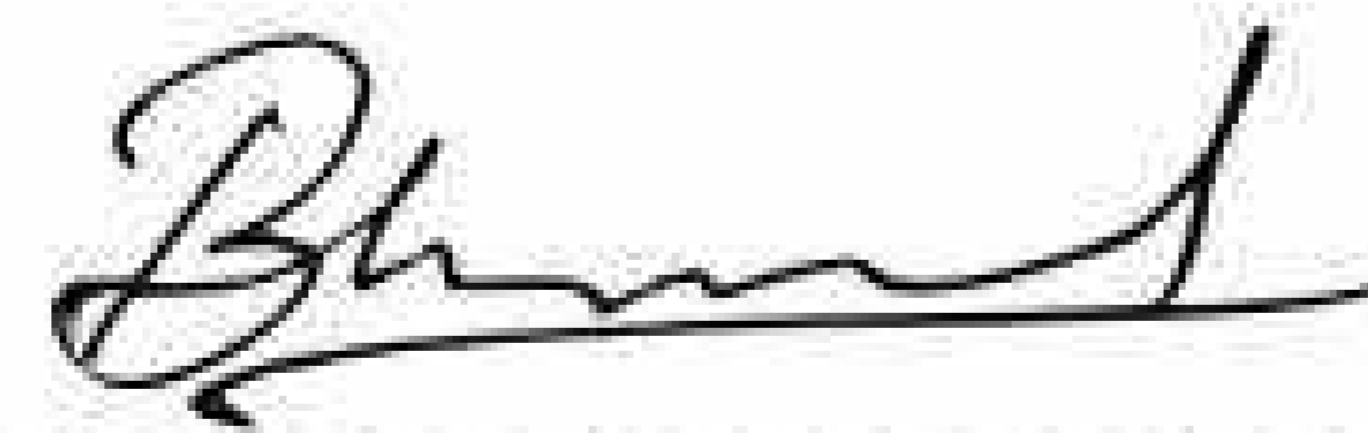
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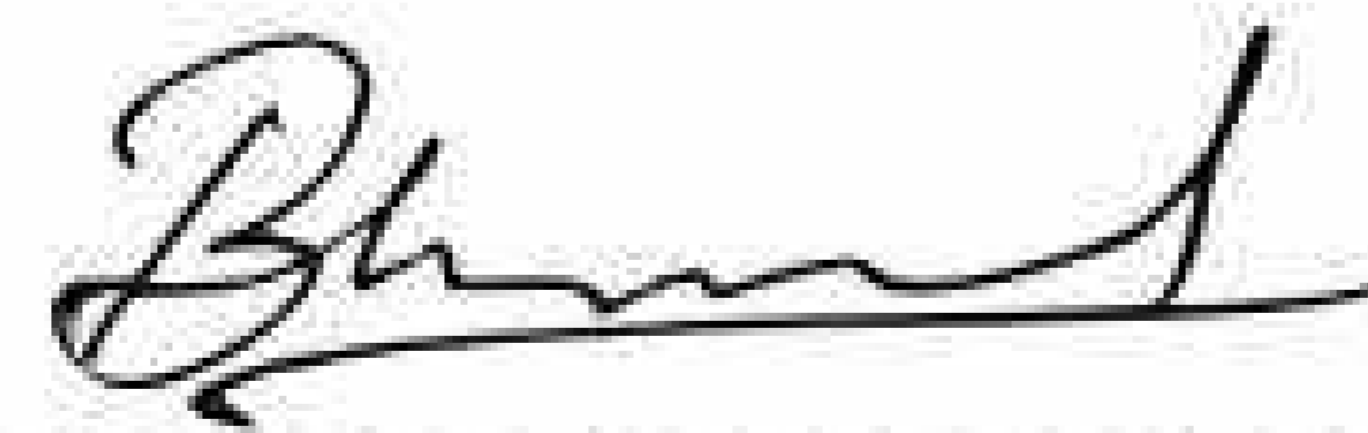
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from

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This is to certify that

Ruthvik Athi

from

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This is to certify that

SAI NIKHIL SAMINENI

from

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SAI VARSHITH SHIVARAMPALLY

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This is to certify that

BACHU SAI VENKATA NITIN

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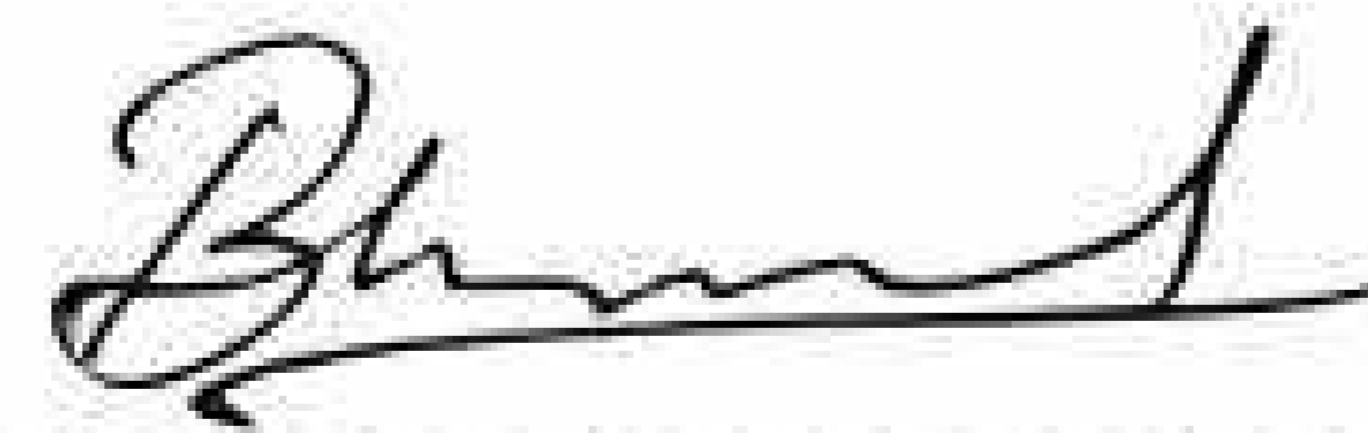
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H NO-1-35,MADDUR,PIN-506367
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Programming in Java

with a consolidated score of **86** %

Online Assignments	24.6/25	Programming Exam	25/25	Proctored Exam	36/50
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Total number of candidates certified in this course: 2632


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IIT Kharagpur

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(12 week course)


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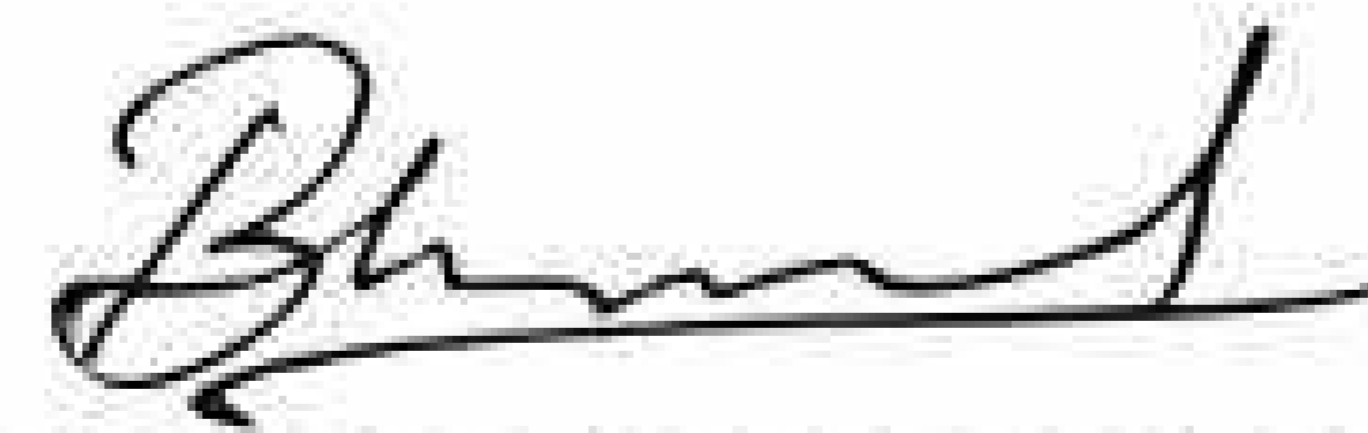
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Manohar Udutha Cohort6

from

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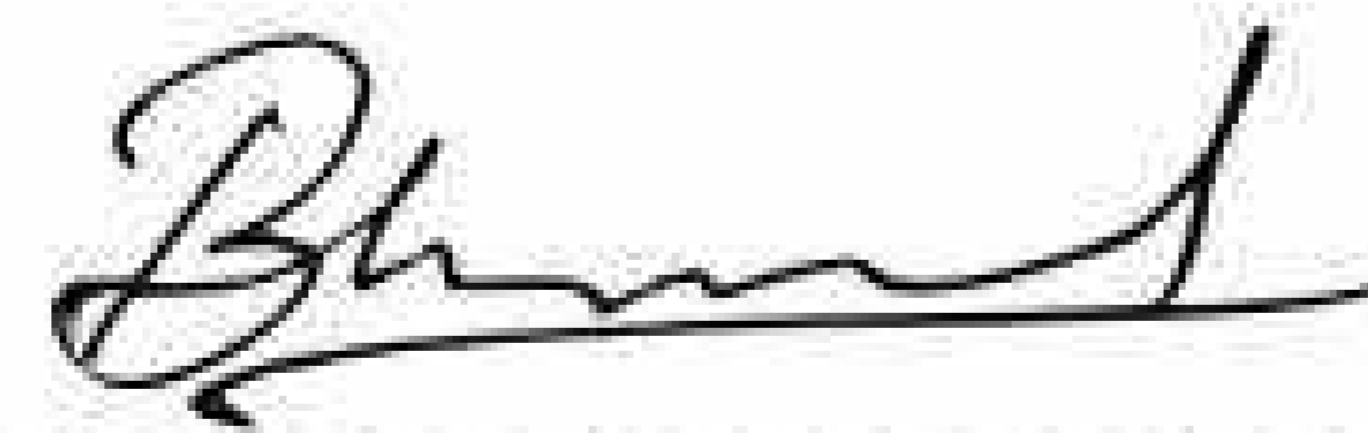
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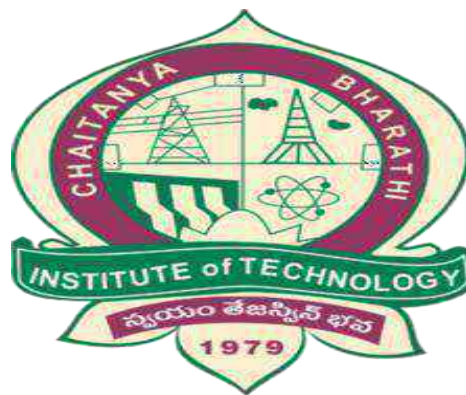
42
years

SWECHA INTERNSHIP WEBDEVELOPEMENT PROJECT REPORT

GROUP PROJECT

MOVIE SEARCH PROJECT:**INFOLIX**

Syed Noor Mohammed
160120748044



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY
(AUTONOMOUS)

TABLE OF CONTENTS:

- ACKNOWLEDGEMENT.
- ABSTRACT
- INTRODUCTION.
- PROBLEM STATEMENT
- RESPONSIBILITIES OF WORK
- DESCRIPTION
- OUTPUT SCREENSHOTS
- SKILLS LEARNED & EXPERIENCE GAINED.
- CONCLUSION
- REFERENCES

ACKNOWLEDGEMENT:

I would like to express my special thanks of gratitude to the SWECHA internship for their able guidance and support in completing project.

I would like to extend my gratitude to principal for providing me with all the facility that was required to do our project.

ABSTRACT:

The goal of this project is to design a web development named INFOLIX, which shows the details of the particular searched movie. Customers can able to find the movies they want, check the IMDB rating and can analyze about different movies.

The curiosity of users towards the movies across the world wide leads to the Infolix web development. They can search for the movie to get the details of genre of the movie, IMDB rating, languages, date of release.

INTRODUCTION:

Swecha is a non-profit organization formerly called as Free Software Foundation Andhra Pradesh (FSF-AP) later changed name to Swecha. It is a Telugu Operating System released in the year 2005, and is a part of Free Software Movement of India (FSMI).The organization is a social movement working towards educating the masses with the essence of Free Software and to provide knowledge to the commoners.

Swecha aims at providing global software solutions to the local people with the Free Software development model by working together with the community of developers and users all over. The prime objective of Swecha OS is to provide a complete computing solution to a population that speaks and understands only Telugu.

PROBLEM STATEMENT:

- To create a responsive website which responds to a users search query and displays accurate results, by fetching the data through various data-bases.
- We are supposed to provide the most necessary and relevant information, which should be gathered from a verified data-base.
- After completion the Website INFOLIX provides all the relevant details for a particular movie on a single page

RESPONSIBILITIES OF WORK:

The responsibilities of a project manager include:

1. Planning the project
2. Creating a schedule and timeline
3. Executing each phase
4. Managing the budget

DESCRIPTION:

We have done project on INFOLIX which is just like a website which shows a few essential details of a particular searched movie, some of the details include the IMDb rating, date of release. Genre of the movie etc.

CODE:

HTML:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="style.css">
  <link rel="preconnect" href="https://fonts.googleapis.com">
  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
  <link
href="https://fonts.googleapis.com/css2?family=Open+Sans:wght@300&display=swap"
rel="stylesheet">
  <link rel="preconnect" href="https://fonts.googleapis.com">
  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
  <link href="https://fonts.googleapis.com/css2?family=Heebo&display=swap"
rel="stylesheet">
  <link rel="preconnect" href="https://fonts.googleapis.com">
  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
  <link
href="https://fonts.googleapis.com/css2?family=Quicksand:wght@395&display=swap"
rel="stylesheet">
```

```
<link rel="icon"
href="https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.dreamstime.com%2Fabstract-explosion-red-dust-black-background-powder-splatter-dark-freeze-motion-splash-image112758329&psig=AOvVaw20iV8Gn4KAA31fpFTzk-ge&ust=1636383820252000&source=images&cd=vfe&ved=0CAsQjRxqFwoTCMiCpvfChvQCFQAAAAAdAAAAABAQ" type = "image/x-icon">
```

```
<title>INFOLIX</title>
```

```
</head>
```

```
<body>
```

```
<h1 style="color: #e50914;size: 7em;font-family:'Heebo', sans-serif;"
class="WebTitle">INFOLIX</h1>
```

```
<div class="outerbox">
```

```
<h1 style="color:white;font-size: 3.125rem;">Unlimited movies,Tv shows search
fordetails.</h1>
```

```
</div>
```

```
<div class="nextbox">
```

```
<input type="text" class = "searchbox" style="color:black ;" placeholder="Enter Title..">
```

```
<button style="color:white; font-size: large;" class="response">Search</button>
```

```
</div>
```

```
<div class="card">
```

```
<div class="details">
```

```
<div class="poster">
```

```
<img src="" class ='fin_image'alt="">
```

```
</div>
```

```
<div class="innerdetails">
```

```
<div class="moviename">
```

```
<h4 class ="mov_name" style="color:rgb(212, 51, 51); font-size: xx-large;font-
weight: 600;" >Movie name</h4>
```

```
</div>
```

```
<div class="otherdetails">
```

```
<h4 class="Genre" style="color:white;">Genre</h4>
```

```
<h4 class="Date"style="color:white;">Relase Date</h4>
```

```
<h4 class="language"style="color:white;">Languages</h4>
```

```
<h4 class="runtime"style="color:white;">Duration</h4>
```

```
</div>
```

```
<div class="rating">
```

```
<h4 class ="imdb"style="color:rgb(212, 51, 51);">Imdb</h4>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<script>
```

```
let movie={
```

```
  apikey:'k_ibinuz1a',
```

```
  fetchdata_2: function(movie_name) {
```

```
    fetch(
```

```
      'https://imdb-api.com/en/API/SearchMovie/k_ibinuz1a/'+movie_name
```

```
    ).then((response) => response.json())
```

```
    .then((data) => this.getim_id(data));
```

```
  },
```

```
  getim_id: function(data){
```

```
    const {id} =
```

```
    data.results[0];
```

```
    this.fetchdata(id);
```

```
  },
```

```
  fetchdata: function(id){
```

```
    fetch(
```

```
      "https://imdb-api.com/en/API/Title/k_ibinuz1a/"+id
```

```
    ).then((response) => response.json())
```

```
    .then((data) => this.displaydata(data));
```

```
  },
```

```
  displaydata: function(data){
```

```
    const {fullTitle} = data;
```

```
    const {image} =data;
```

```
    const {releaseDate}=data;
```

```
    const
```

```
    {imDbRating}=data;const
```

```
    {genres}=data; const
```

```
    {runtimeStr}=data; const
```

```
    {languages}=data;
```

```
    document.querySelector('.fin_image').src=image;
```

```
    document.querySelector('.mov_name').innerHTML=fullTitle;
```

```
document.querySelector('.Genre').innerHTML="Genre: "+genres;
```



```

document.querySelector('.Date').innerHTML="Date of Release: "+releaseDate;
    document.querySelector('.language').innerHTML='Language: '+languages;
    document.querySelector('.runtime').innerHTML="Duration:"+runtimeStr;
    document.querySelector('.imdb').innerHTML=imDbRating;
},
search: function(){
    this.fetchdata_2(document.querySelector("input.searchbox").value);
}
};
document.querySelector('button.response').addEventListener('click',function(){
    movie.search();
});
document.querySelector("input.searchbox").addEventListener('keyup',function(event){
    if(event.key=="Enter"){
        movie.search();
    }
});

</script>
</body>
</html>

```

JAVA SCRIPT:

```

let movie={
    apikey:'k_ibinuz1a',
    fetchdata_2: function(movie_name) {
        fetch(
            'https://imdb-api.com/en/API/SearchMovie/k_ibinuz1a/'+movie_name
        ).then((response) => response.json())
        .then((data) => this.getim_id(data));
    },
    getim_id: function(data){
        const {id} =
            data.results[0];
        this.fetchdata(id);
    },
    fetchdata: function(id){

```

```

fetch(
  "https://imdb-api.com/en/API/Title/k_ibinuz1a/"+id
).then((response) => response.json())
.then((data) => this.displaydata(data));
},
displaydata: function(data){
  const {fullTitle} = data;
  const {image} =data;
  const {releaseDate}=data;
  const
  {imDbRating}=data;
  const {genres}=data;
  const {runtimeStr}=data;
  const {languages}=data;
  document.querySelector('.fin_image').src=image;
  document.querySelector('.mov_name').innerHTML=fullTitle;
  document.querySelector('.Genre').innerHTML="Genre: "+genres;
  document.querySelector('.Date').innerHTML="Date of Relase: "+releaseDate;
  document.querySelector('.language').innerHTML='Language: '+languages;
  document.querySelector('.runtime').innerHTML="Duration:"+runtimeStr;
  document.querySelector('.imdb').innerHTML=imDbRating;
},
search: function(){ this.fetchdata_2(document.querySelector("input.searchbox").value);
}
};
document.querySelector('button.response').addEventListener('click',function(){
  movie.search();
});

```

CSS:

```

body{
  background-
  image:url(https://miro.medium.com/max/1400/1*51yavS59mazOFnb55Z6znQ.png);
}
.outerbox{
  margin: 0;
  max-width: 100vw;
  display: flex;
  justify-content: center;
  align-items:center;
  margin-top: 4em;

```

```
    font-family: 'Heebo', sans-serif;
}
input.searchbox {
    border-radius: 0px;
    padding: 3px
    135px;font-weight:
    270;
    font-size: 120%;
    justify-content: center;
    text-align: center;
    background-color:whitesmoke;
    text-shadow: black;
    font-weight: normal;
    border-color: #e50914;
    border-width: 3px;
    font-family:'Quicksand', sans-serif;
    transition: 0.35s ease-in-out;
}
.response {
    margin-left: 2px;
    height: 34.5px;
    width: 96px;
    border-radius: 0px;
    background-color: #e50914;
    border: none;
    text-align: center;
    font-size: larger;
    font-weight: 500;
    font-family: 'Quicksand', sans-serif;
    cursor: pointer;
    transition: 0.3s ease-in-out;
}
.nextbox{
    display: flex;
    justify-content: center;
    margin-top: 6em;
    font-family: 'Open Sans', sans-serif;
}
.avatar{
    margin-top :3em;
}
```

```
.card {
  margin-top: 9em;
  display: flex;
  justify-content: center;
  align-items: center;
  font-family: 'Open Sans', sans-serif;
}
.moviename {
  display: flex;
  justify-content: center;
  font-family: 'Open Sans', sans-serif;
}
.details {
  border-radius: 35px;
  background: #1a1a1ac0;
  padding: 3em;
  font-family: 'Open Sans', sans-serif;
  min-width: 325px;
  max-width: 325px;
  max-height: 695px;
}
.poster {
  display: flex;
  justify-content: center;
}
img {
  border-radius: 35px;
  max-width: 175px;
}
.rating {
  display: flex;
  justify-content: center;
  align-items: center;
  font-size: xxx-large;
  margin-bottom: 0em;
  font-weight: bold;
  margin-top: -1.3em;
}
h1.WebTitle {
  font-size:
  73px; display:
  flex;
  justify-content: center;
```



```
align-items: center;

margin-bottom: 0px;
margin-top: 52px;
}
button.response {
  cursor: pointer;
}
input.searchbox {
  cursor: pointer;
}
button.response:hover {
  background: black;
}
input.searchbox:hover {
  background: #cccccc;
}
```

OUTPUT SCREENSHOTS





Interstellar (2014)

Genre: Adventure, Drama, Sci-Fi

Date of Release: 2014-11-07

Language: English

Duration: 2h 49min

8.7

SKILLS LEARNED & EXPERIENCE GAINED:

- From the four weeks of internship we have learnt HTML,JS and CSS.
- We also learned Basics of Python and Web Architecture.
- We learned how to divide and manage the work and learn from each other. Team management

CONCLUSION:

We're excited to share with you the new web development for movie search which will be useful for every user.

We hope our project fulfils the main motto it actually wanted to achieve, which is to suggest to people to search movies. We have even beautifully filled our web page with those beautiful movies, people would always love to visit them. People who love to watch movies are always fond of websites like these which not only helps to select a perfect movie they would love to watch.

REFERENCES:

- <https://www.imdb.com/>
- <https://www.wikipedia.com/>
-

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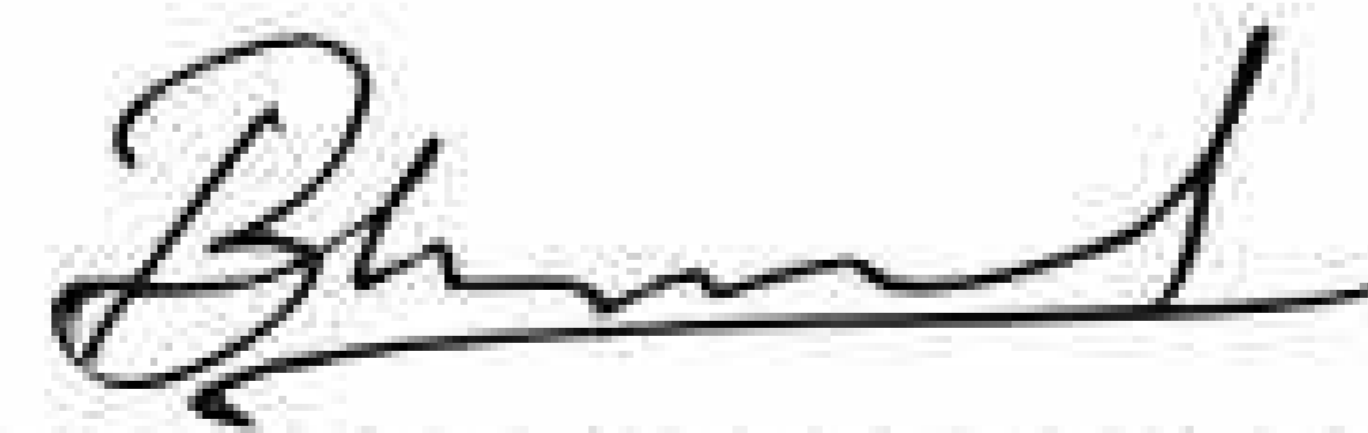
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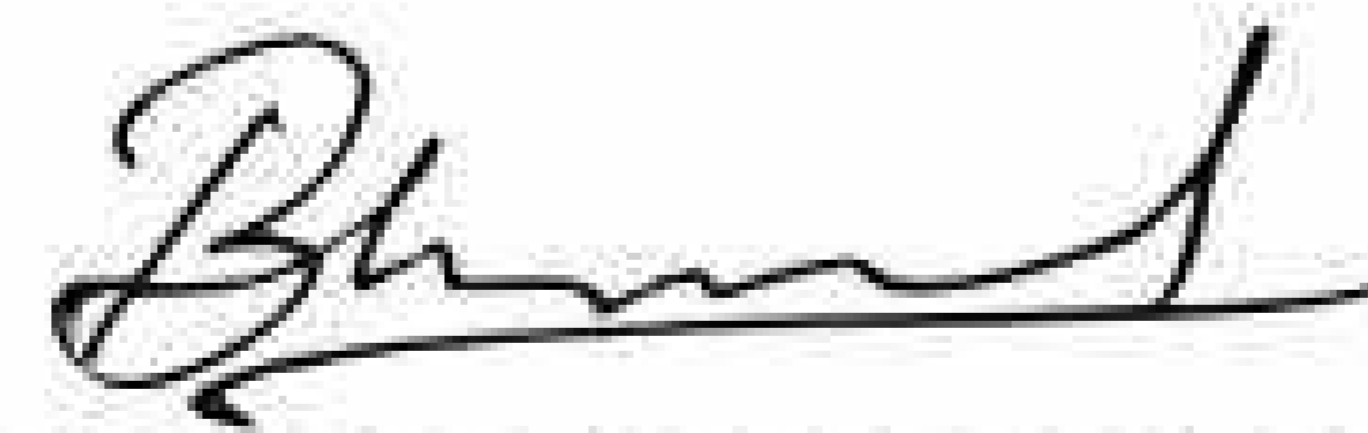
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Mareddy shiva reddy Cohort6

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INSTITUTE OF TECHNOLOGY (A)**

Kokapet(Village), Gandipet, Hyderabad, Telangana-500075. www.cb.it.ac.in



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INNOVATION AND
EDUCATION

41
years

DEPARTMENT OF MATHEMATICS

B.E – I SEMESTER

Linear Algebra & Calculus Lab Record

Course Code:20MTC02

Academic Year

2020-21

**CHAITANYA BHARATHI INSTITUTE OF
TECHNOLOGY**
Gandipet, Hyderabad-500075



Certificate

*Certified that this is the bonafide record of the practical work done during the academic year
2020-2021 by _____*

Roll Number _____ Section _____

*in the Laboratory of **Linear Algebra & Calculus** of the Department of Mathematics.*

Internal examiner

External examiner

Head of the Department

Date : _____

Name of the student:

Roll No:

Course Name with code: Linear Algebra & Calculus Lab
20MTC02

Semester: I

Internal Lab Exam:

External Lab Exam:

Department: Mathematics

Branch &Section:

S.No	Name of the Experiment	Page No.	Remarks
1	BASIC COMMANDS		
2	ADDITION OF MATRICES		
3	MULTIPLICATION OF MATRICES		
4	DETERMINANT AND INVERSE OF MATRICES		
5	SOLUTION OF SYSTEM OF LINEAR EQUATIONS		
6	EIGEN VALUES AND EIGENVECTORS OF MATRICES		
7	NATURE OF THE QUADRATIC FORM		
8	DATA PLOTTING (2D)		
9	DATA PLOTTING (3D)		



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manasvi kothlapuram Cohort6

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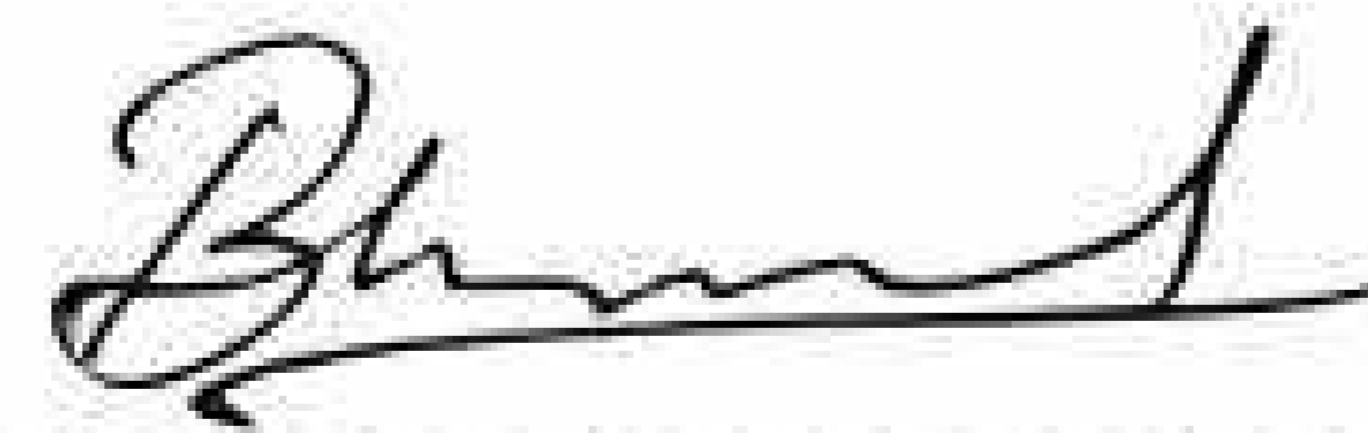
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CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Adithya Gururaj

participated in "Artificial Intelligence - Languify"
from 11th Nov, 2021 to 11th Jan, 2022
and successfully completed the program.

16-Jan-2022

DATE



PAUL MATHEW. I
OVERALL COORDINATOR

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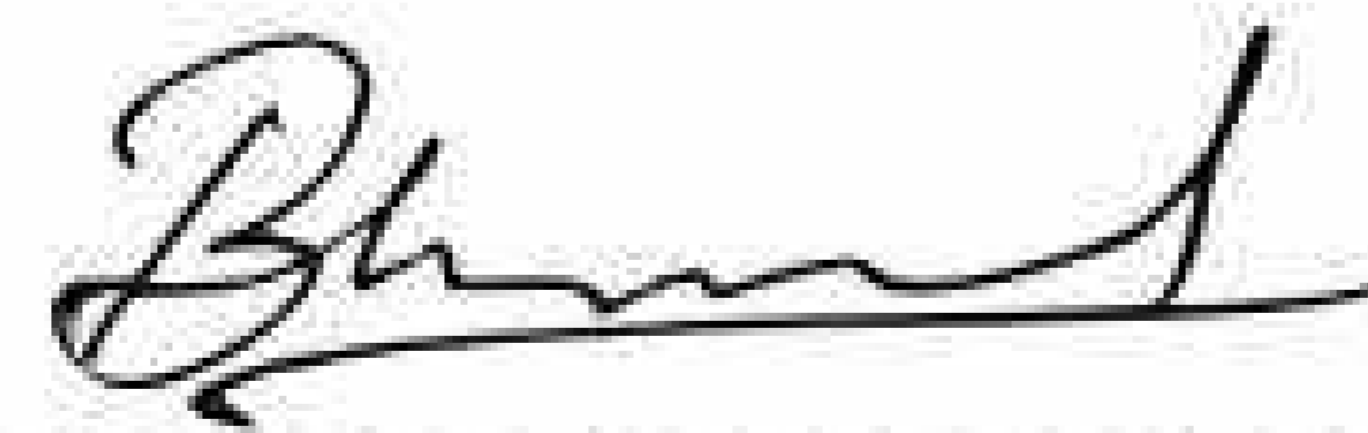
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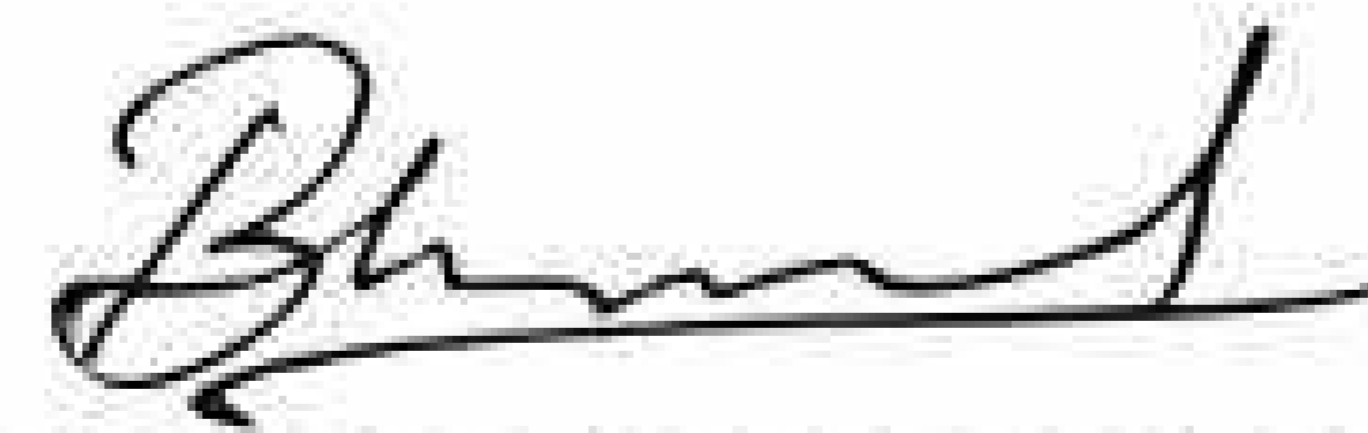
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KOKAPET
HYDERABAD
TELANGANA - 500075
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Score	Type of Certificate
≥ 90	Elite+Gold
75-89	Elite+Silver
≥ 60	Elite
40-59	Successfully Completed
< 40	No Certificate

No. of credits recommended by NPTEL:3

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for successfully completing the course

Programming in Java

with a consolidated score of **76** %



Online Assignments	24.47/25	Programming Exam	25/25	Proctored Exam	27/50
--------------------	----------	------------------	-------	----------------	-------

Total number of candidates certified in this course: **2632**

Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Jul-Oct 2021
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



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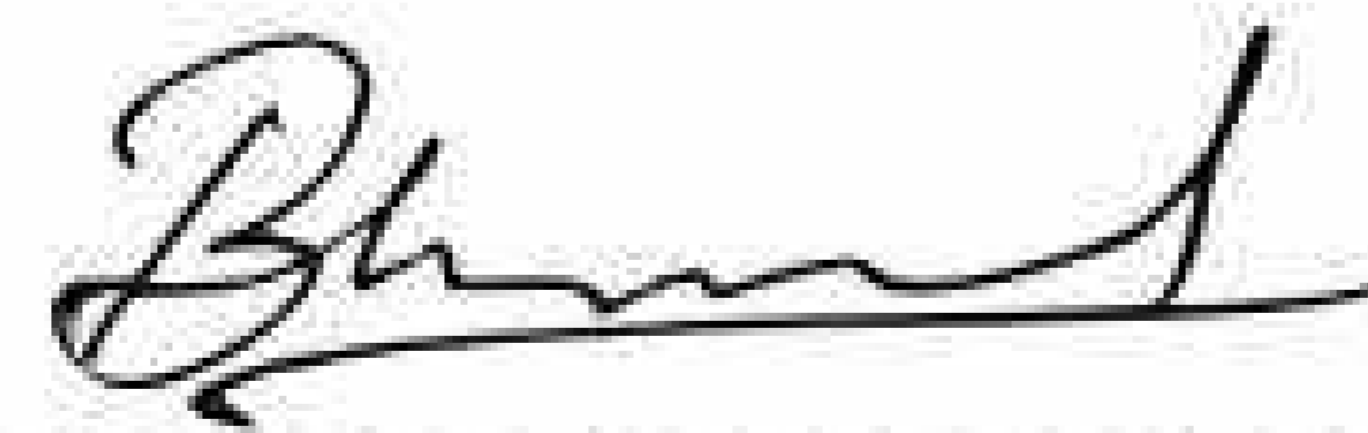
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This is to certify that

KOLLI KRISHNA RISHI

has successfully completed the Foundational Level in
Programming and Data Science
August 2021



21F1001957

Programme Coordinator

Director

Chairman, Centre for Continuing Education

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Certificate of Internship

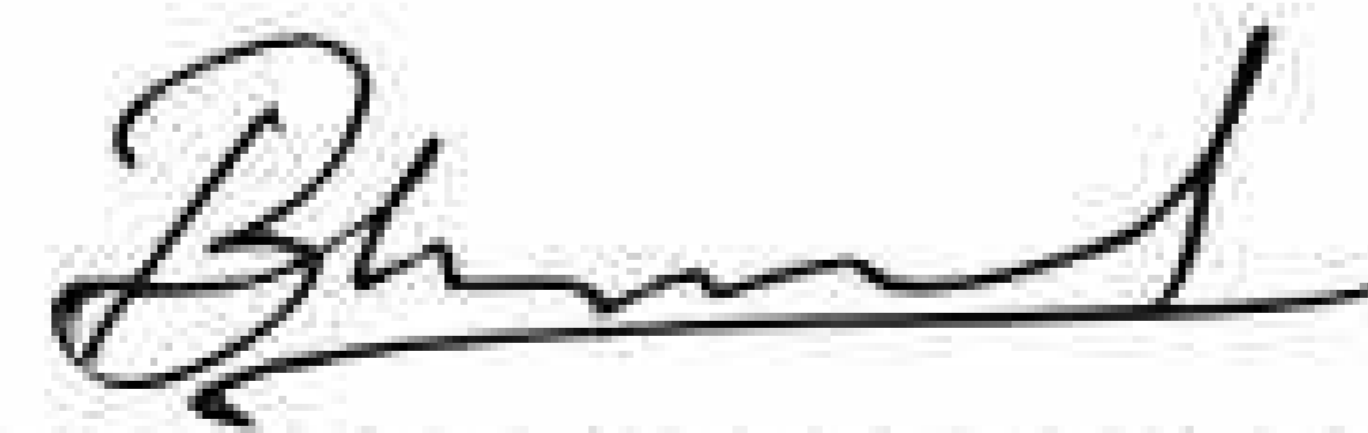
This is to certify that

Nivas Reddy Velmula

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

U Prashanth Chowdary Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21MG63S33632311

To
PRATHAM REDDY
502, SRI SAI APPARTMENTS, SHILPA NAGAR
KUSHAIGUDA, MEDCHAL, MALKAZIGIRI
ECIL
TELANGANA - 500062
PH. NO :7382545566



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:2

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

PRATHAM REDDY

for successfully completing the course

Innovation, Business Models and Entrepreneurship

with a consolidated score of **49** %

Online Assignments	19.17/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: 2250

Prof. V. C. Srivastava
Coordinator, Continuing Education Centre
IIT Roorkee

Aug-Oct 2021
(8 week course)

Prof. Priti Maheshwari
NPTEL Coordinator
IIT Roorkee



Indian Institute of Technology Roorkee



internship
studio

CERTIFICATE
OF INTERNSHIP

THIS IS TO CERTIFY

K. Rajesh

for completing 5 weeks of internship in Ethical Hacking with the title of
“Assessing Vulnerabilities”
at Internship Studio from 30th December to 3rd February 2022.
We wish you all the best for your future endeavours.

ISSUE DATE: 04/02/2022

Zeel Patel

ZEEL PATEL

Internship Mentor

Aniket Bihani

ANIKET BIHANI

Founder & CEO

CERTIFICATE NUMBER
ISEHI8058



Swecha

Certificate of Internship

This is to certify that

MADIREDDY RAMA KRISHNA REDDY

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Sahakar Malleboina

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

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Roll No: NPTEL21CS56S13630920

To
V SAI CHARAN REDDY
4-19,CHEPPIAL
TELANGANA - 505501
PH. NO :7993644174



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
V SAI CHARAN REDDY
for successfully completing the course



Programming in Java

with a consolidated score of **76** %

Online Assignments	24.25/25	Programming Exam	25/25	Proctored Exam	26.5/50
--------------------	----------	------------------	-------	----------------	---------

Total number of candidates certified in this course: 2632


Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Jul-Oct 2021
(12 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No:NPTEL21CS56S13630920

To validate and check scores: <https://nptel.ac.in/noc/>

Swecha

Certificate of Internship

This is to certify that

Peddi Sai Lohith

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

ALLADI SAI MANOJ

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Medhansh T

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032



Reset deadlines How it works

You've successfully completed the course! To access up-to-date course material, please re-set deadlines.

Reset my deadlines

Your computer's timezone does not seem to match your Coursera account's timezone (set to America/Los_Angeles).

C++ Basic Structures: Vectors, Pointers, Strings, and Files

by Codio



Congratulations on getting your certificate!

You completed this course on January 15, 2022.

Grade received: 100%

Share Certificate

Download certificate

Rate this course

Rate this course ☆☆☆☆

You've completed the C++ Basic Structures: Vectors, Pointers, Strings, and Files specialization! Based on the skills you learned, you may find these courses helpful

- Week 1
- Week 2
- Week 3
- Week 4

Do you want to receive emails from Codio?

Yes



Reset deadlines How it works

You've successfully completed the course! To access up-to-date course material, please reset your deadlines.

Reset my deadlines

C++ Basics: Selection and Iteration

by Codio



Congratulations on getting your certificate!

You completed this course on October 16, 2021

Grade received: 100%

Share Certificate

Download certificate

Rate this course

Rate this course ★★★★★

You've completed the C++ Basics: Selection and Iteration specialization! Based on the skills you learned, you may find these courses helpful



C++ Object Basics: Functions Codio ★★★★★



Object-Oriented C++: Introduction Codio ★★★★★



Object-Oriented Design University of Alberta ★★★★★

Instructor's Note

Dismiss X



Welcome to C++ Basics: Selection and Iteration! You're joining thousands of learners currently enrolled in the course. I'm excited to have you in the class and look forward to your contributions to the learning community. To begin, I recommend...

More

Week 1

Week 2

Week 3

Week 4

Do you want to receive emails from Codio?

Yes X



Oct 16, 2021

Sai Sathvik Reddy Bontu

has successfully completed

C++ Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

COURSE
CERTIFICATE



Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

Verify at coursera.org/verify/PSB3XSN57S6Z
Coursera has confirmed the identity of this individual and their
participation in the course.



Jan 15, 2022

Sai Sathvik Reddy Bontu

has successfully completed

C++ Basic Structures: Vectors, Pointers, Strings, and Files

an online non-credit course authorized by Codio and offered through Coursera

Anh Le
Curriculum Developer
Codio

Elise Deitrick, PhD
VP of Product
Codio

COURSE CERTIFICATE

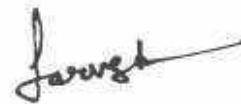


Verify at coursera.org/verify/TX4QTUX75TBZ
Coursera has confirmed the identity of this individual and their
participation in the course.

Certificate of Training

JALIGAPU SAISURAJ

from CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY has successfully completed an 8-week online training on **Ethical Hacking**. In the training, JALIGAPU learned Basics of Information Security, Computer Networking and Web Development, Information Gathering and VAPT of some important vulnerabilities in the OWASP top 10, Automating VAPT, and Documenting and Reporting Vulnerabilities. JALIGAPU scored 91% marks in the final assessment and is a top performer in the training. We wish JALIGAPU all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-02-21

Certificate no. : EABEA170-0C53-1DC7-08F9-3458D4D9EC82

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate



Certificate Verification

CFB9E70C-B1B6-E79E-69CF-4C3F62BFA892

VERIFY

Certificate number is valid

Name	Mr. Mule Saketh Reddy
Training name	Core Java
College name	Chaitanya Bharathi Institute of Technology
Final Test Score	99%
Date of certification	2022-01-23

Programming Trainings

Programming with Python

Web Development

Ethical Hacking

Programming with C and C++

Android App Development

Core Java

React

Blockchain

Angular

Git & Github

How to Ace Coding Interviews

Data Structures & Algorithms

SAS Programming

Clinical Trials Analysis & Reporting

MATLAB

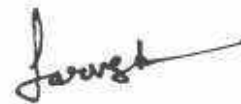
Certificate of Training

Mule Saketh Reddy

from Chaitanya Bharathi Institute of Technology has successfully completed a 6-week online training on **Core Java**. The training consisted of Getting Started with Java, Leveraging Basic Concepts, Object Oriented Programming, and Java App Development modules.

Mule Saketh scored 99% marks in the final assessment and is a top performer in the training.

We wish Mule Saketh all the best for future endeavours.



Sarvesh Agarwal

FOUNDER & CEO, INTERNSHALA

Date of certification: 2022-01-23

Certificate no. : CFB9E70C-B1B6-E79E-69CF-4C3F62BFA892

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, <https://nptel.ac.in/noc/>

Roll No: NPTEL21CS56S13633044

To
SEELAM SANGI REDDY
BANIGANDLAPADU VILLAGE, YERRUPALEM MANDAL
TELANGANA - 507202
PH. NO :9392972343



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to
SEELAM SANGI REDDY
for successfully completing the course
Programming in Java



with a consolidated score of **81** %

Online Assignments	24.47/25	Programming Exam	25/25	Proctored Exam	32/50
--------------------	----------	------------------	-------	----------------	-------

Total number of candidates certified in this course: 2632


Prof. G P Raja Sekhar
Dean, Continuing Education
IIT Kharagpur

Jul-Oct 2021
(12 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL21CS56S13633044

To validate and check scores: <https://nptel.ac.in/noc/>

Swecha

Certificate of Internship

This is to certify that

K Shiva Kiran

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

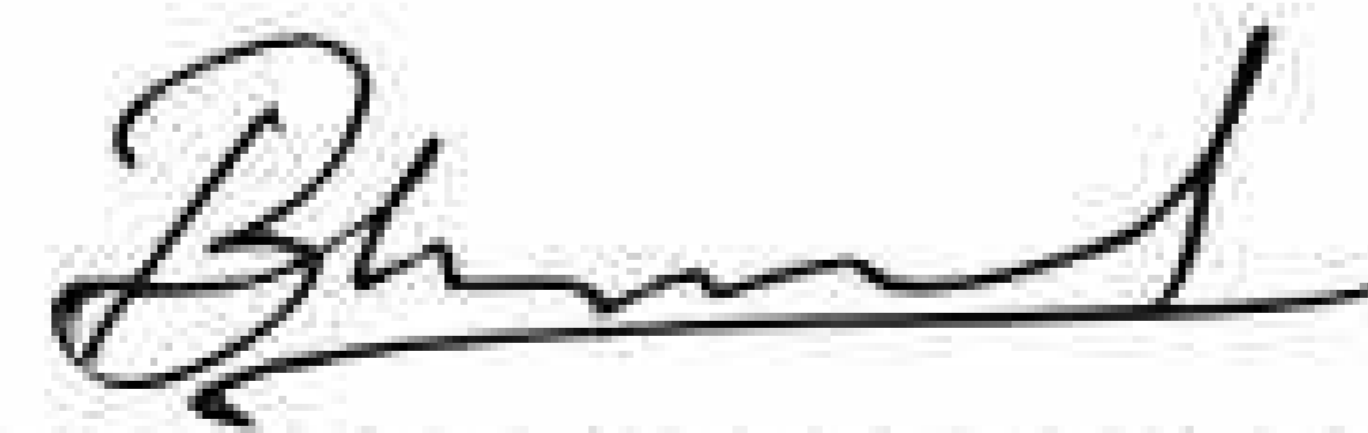
This is to certify that

P N Siddharth Balaji Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032



Completed by **Kalluri Sri Sathvik Koundinya**

November 13, 2021

4 weeks of study, 2-3 hours/week

Grade Achieved: 95%

Kalluri Sri Sathvik Koundinya's account is verified.
Coursera certifies their successful completion of [Java Basics: Selection and Iteration](#)

Share Certificate

Download Certificate



Completed by **Kalluri Sri Sathvik Koundinya**

January 27, 2022

4 weeks of study, 2-3 hours/week

Grade Achieved: 90%

Kalluri Sri Sathvik Koundinya's account is verified.
Coursera certifies their successful completion of [Java Object Basics: Functions, Recursion, and Objects](#)

 **Share Certificate**

 **Download Certificate**





Nov 13, 2021

Kalluri Sri Sathvik Koundinya

has successfully completed

Java Basics: Selection and Iteration

an online non-credit course authorized by Codio and offered through Coursera

Patrick Ester, Curriculum Developer, Codio
Anh Le, Curriculum Developer, Codio
Elise Deitrick, PhD, VP of Product, Codio

COURSE
CERTIFICATE



Verify at:
coursera.org/verify/5G7MXEYDU8N2

Coursera has confirmed the identity of this individual and their participation in the course.



Jan 27, 2022

Kalluri Sri Sathvik Koundinya

has successfully completed

Java Object Basics: Functions, Recursion, and Objects

an online non-credit course authorized by Codio and offered through Coursera

A handwritten signature in black ink, appearing to read 'Patrick Ester'.

Patrick Ester, Curriculum Developer, Codio
Anh Le, Curriculum Developer, Codio
Elise Deitrick, PhD, VP of Product, Codio

COURSE
CERTIFICATE



Verify at:
coursera.org/verify/47Y9J6SB8M52

Coursera has confirmed the identity of this individual and their participation in the course.

Swecha

Certificate of Internship

This is to certify that

Srinivas Kommineni

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Mocharla.Srinivasa Rao Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th,2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony,Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Tanish K

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

venkat vikas reddy D

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



EXECUTIVE COMMITTEE MEMBER
SWECHA

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Naravarjhula Vibhavari Sharma Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

BARMA VISHWANTH Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

GOPARI VIVEK Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Enugula Rajendar

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

K Tejashwini Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

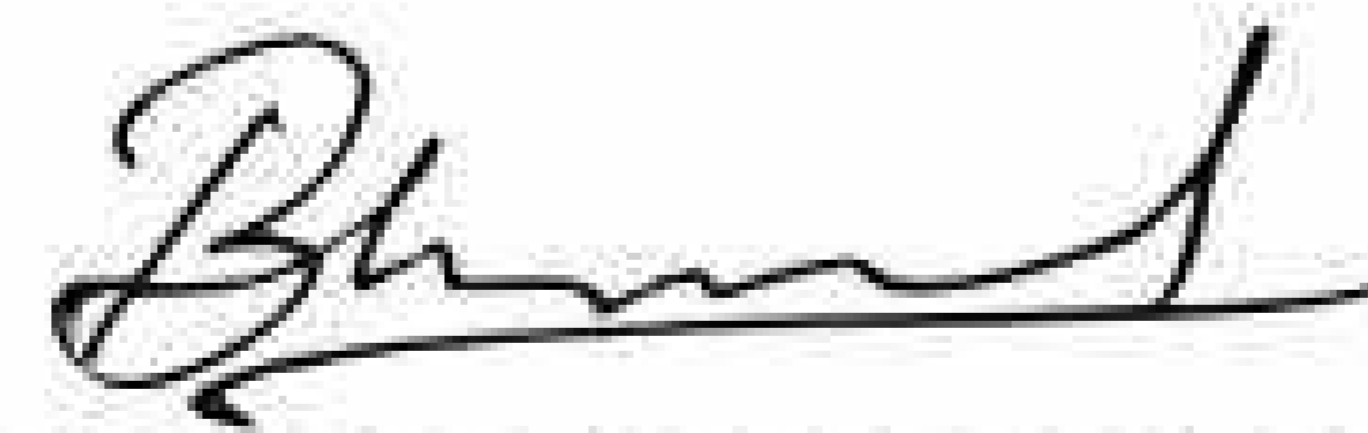
This is to certify that

pentam Venkatesh

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

Swecha

Certificate of Internship

This is to certify that

Karkam manisha Cohort6

from

Chaitanya Bharathi Institute of Technology

has successfully completed a 4-week Swecha Internship Program during **October 9th, 2021 to November 6th, 2021** on **Web Development and Data Sciences** with Swecha.



**EXECUTIVE COMMITTEE MEMBER
SWECHA**

Sy. No. 91, Beside Centre for Good Governance, Greenlands colony, Svm, Jawaharlal, Nehru Outer Ring Rd,
Madhava Reddy Colony, Gachibowli, Telangana 500032

C E R T I F I C A T E

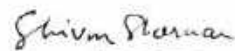
OF TRAINING COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

VINAY KUMAR

This is to certify that the above mentioned candidate has successfully completed his/her training in Machine Learning from 5th November to 5th December 2021

During this course he/she showed diligence, consistency, determination, active participation and innovation throughout their training period.



Shivam Sharma
(VP - Human Resources)



Student UIN : 2002534

Certificate no. : RA1713534