

Name of Faculty Dr. K. PRABHAKAR  
 Designation Professor  
 Nature of Job/Appointment Regular  
 Date of Joining 04/09/2023  
 E-mail prabhakark\_aiml@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (CSE)	Awarded
PG	M. Tech. (CSE)	First Class with Distinction
UG	B. Tech. (CSE)	First Class

### Work Experience

Teaching 17 Years  
 Research 13 Years  
 Others --

Area of Specialization  
 1. Software Engineering  
 2. Machine Learning

Professional Memberships  
 1. IAENG  
 2. IEEE

Responsibilities held at Institution Level --

Responsibilities held at Department Level  
 1. R&D Coordinator  
 2. NIRF Coordinator

Courses Handled at Under Graduate / Post Graduate Level.  
 1. Software Engineering.  
 2. Software Testing Methodologies.  
 3. Object Oriented Software Engineering.  
 4. Object Oriented Analysis & Design  
 5. Software Architecture  
 6. Software Requirements and Estimation  
 7. C-Language and Data Structures.  
 8. Advanced Data Structures.  
 9. Principles of Programming Languages.  
 10. OOP through JAVA, C++.  
 11. Web-Technologies.  
 12. Computer Organization.  
 13. Advanced Computer Architecture.  
 14. Database Management Systems.  
 15. Operating Systems.  
 16. Electronic Commerce.  
 17. Python Programming  
 18. Digital Logic Design  
 19. Design Patterns  
 20. Cloud Computing  
 21. Internet of Things  
 22. Socially Relevant projects  
 23. Software Engineering (CASE-Tools) :  
 Visual Paradigm, Rational Rose, Selenium,  
 Unified Functional Testing (UFT/QTP) Tool.

No. of Papers Published National Journals – Nil International Journals – 18  
 National Conference – Nil International Conference – 08

Projects Carried out UG Projects: 50  
 PG Projects: 10

Research Projects: **IOT incubator Cell for Agricultural Applications.** under A Scheme for promotion of Innovation, Rural Industry and Entrepreneurship (ASPIRE), India, (Regn No:AP/2019/0237208), Dhanekula Institute of Engineering and Technology, Vijayawada Budget: **36 L**

**Duration:** Sep. 2020 to Feb. 2022.

**Consultancy Projects:**

- Pre-Dental Treatment Analysis using Machine Learning Techniques, U-Lab Systems, USA.  
Duration: Dec. 2020 to Feb. 2022  
Technology: ML with Python
- Patient Medical Report management using WCM tool, Sree Overseas Software Solutions Pvt. Ltd, Vijayawada,  
Tools: Adobe Experience Manager 6.5, AEM Forms Designer, AEM Forms Workbench, Oracle and Notepad.

**Patents**

1. Dr. PRABHAKAR KANDUKURI, "IOT SENSORS BASED MULTI-FUNCTIONAL AND INTELLIGENT WALK GUIDING STICK FOR VISUAL DISABLED PERSON", Field Of Invention: BIO-MEDICAL ENGINEERING, Application No: 201941051603, Publication Number: 51/2019, Publication Date: 20/12/2019.
2. Dr. PRABHAKAR KANDUKURI, "GENERIC, MAPPABLE AND AUTOMATICALLY CONFIGURABLE SINIFICATION SOFTWARE", Application No.202041010555 A, INDIA, Date of filing of Application: 12/03/2020, Publication Date: 20/03/2020
3. Dr. PRABHAKAR KANDUKURI, SECURE HUMAN AUTHENTICATION SYSTEM WITH THREE LEVEL MULTI MODEL BIOMETRIC FUSION USING ARTIFICIAL NEURAL NETWORKS, Application Number: 202141016077, Field Of Invention : Computer Science, Date of Filing: 05/04/2021, Publication Date (U/S 11A): 16/04/2021

**Technology Transfer**

- Reviewer for
1. Advancement in Electronics & Communication Engineering, AECE – 2023
  2. 2nd International Conference on Sustainable Energy and Future Electric transportation (SEFET) 2022.

**No. of Books/Chapter Published with details**

1. Artificial Intelligence & Cognitive Computing, 2018. Springer-Book Chapter: "Software Modernization through Model Transformations".
2. Regression Testing: A Model Driven Approach, Lambert Academic Publishing –ISBN 978-620-0-65650-6

**Details of Short-Term Training Programs/Faculty Development Programs/Seminars/Workshops. Other Trainings (Attended and/or Organized).**

**Programs Attended: 30**

**Programs Organized:04**

**Details of Journal Publications/Conferences (National and International)**

**International Journal:**

1. Prabhakar Kandukuri et al. "Deep Learning Based RAGAE-SVM for Chronic Kidney Disease Diagnosis on Internet of Health Things Platform" Journal of Big data. (SCI- Under Progress: completed reviews)
2. Prabhakar Kandukuri et al. "Sugar Cane Leaf Disease Classification and Identification Using Deep Machine Learning Algorithms" Journal of Theoretical and Applied Information Technology, ISSN:1992-8645 (Accepted)
3. Prabhakar Kandukuri et al. "Machine Learning Framework for Generating Photorealistic Photos of Real Time Objects Using Adam Optimizer by A Generative Adversarial Network (GAN)", International Journal on Recent and Innovation Trends in Computing and Communication
4. Prabhakar Kandukuri et al, "Multivariate Economic Analysis of the Government Policies and COVID'19 on Financial Sector" International Journal of Computer Applications in Technology, Inderscience Enterprises Ltd.,
5. Prabhakar Kandukuri et al, "Mobile Agent Based Key Update in Wireless Sensor Networks", International Journal of Grid and Distributed Computing, Vol. 14, No. 1, (2020), pp. 497-512, ISSN: 2005-4262 IJGDC, Copyright ©2021SERSC.  
a. <http://sersc.org/journals/index.php/IJGDC/article/view/35885/19839> Web of Science (ESCI)
6. Prabhakar Kandukuri et al, An AI Based Offensive Language Detection System, Journal of Emerging Technologies and Innovative Research, 2021 JETIR July 2021, Volume 8, Issue 7 www.jetir.org (ISSN-

7. Prabhakar Kandukuri et al, "Machine Learning Algorithm Based Prediction of Heart Stroke Chances Based on Data provided", International Journal of Advanced Research in Engineering and Technology (IJARET). Volume 11, Issue 12, December 2020, pp.2006-2019, Article ID: IJARET\_11\_12\_190, ISSN Print: 0976-6480 and ISSN Online: 0976-6499, DOI: 10.34218/IJARET.11.12.2020.190
8. Prabhakar Kandukuri et al, "Detection of Position Falsification Attack in VANETs using ACO", International Journal of Control and Automation, Vol 12 No 6 (2019): Vol 12 No 6 (2019).
9. Prabhakar Kandukuri et al, "Dynamic Data Analysis and Decision Making on Twitter Data", International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-9 Issue-1, November, 2019.
10. Prabhakar K. A. Ananda Rao, K. Venugopala Rao, "A Model-Driven Approach to Regression Testing of Reusable Software", Proceeding in International Journal of Pure and Applied Mathematics, Volume 120 No. 6 2018, 3571-3591, ISSN: 1314-3395
11. Prabhakar Kandukuri, A. Ananda Rao, K. Venugopala Rao "An Approach to Regression Testing based on Grounded Theory Specifications", International Journal of Computer Sciences and Engineering, Vol.-6, Issue-6, pp:352-361, June 2018 E-ISSN: 2347-2693.
12. Prabhakar Kandukuri, A. Ananda Rao, K. Venugopala Rao "A Model-Driven Approach to Regression Testing for Software Modernization", International Journal of Scientific Research in Computer Science Applications and Management Studies, Volume 7, Issue 3, pp: May 2018.
13. Prabhakar K., A. Ananda Rao, K. Venugopala Rao, "Cost-Effective Model-Based Regression Testing", "IAENG– World Congress on Engineering", Vol. I-WCE 2017, pp241-246, July 5-7, 2017, London, U.K., 2017. IAENG-Engg. Letters
14. K. Prabhakar et al, "Rate Based Pacing with Various TCP Variants", International Journal of Trend in Research and Development, Volume 3(3), ISSN: 2394-9333, Jun 2, 2016.
15. K. Prabhakar et al, "Detecting Unsafe Component Loadings using Static Techniques", International Journal of Information and Computation Technology. ISSN 0974-2239 Volume 3, Number 10 (2013), pp. 1009-1014.
16. K. Prabhakar et al, "MARTE Genetic Algorithm for Uncovering Scenarios Leading to Data Races in Concurrent Systems", International Journal of Information and Computation Technology. ISSN 0974-2239 Volume 3, Number 3 (2013), pp. 201-210.
17. K. Prabhakar et al, "Object Detection With Voice Translation" Journal of Fundamental & Comparative Research, Vol. VIII, No. 1(XIX) : 2022, ISSN: 2277-7067 (UGC Journal)
18. K. Prabhakar et al, "Model for Detecting COVID-19 on Chest X-Ray using CNN", Dogo Rangsang Research Journal, Vol. 09, Issue. 01, No. 01: 2022. (UGC Care Group I Journal).

#### International Conferences:

1. Prabhakar Kandukuri et al. "Paddy Leaf Disease Identification on Infrared Images based on CNN with Auto Encoders," 2023 Second International Conference on Augmented Intelligence and Sustainable Systems (ICAISS), Trichy, India, 2023, pp. 277-281, doi: 10.1109/ICAISS58487.2023.10250752.
2. Prabhakar Kandukuri et al. "Intelligent Agribusiness System-An Echo Friendly IOT based Approach." *E3S Web of Conferences*. Vol. 430. EDP Sciences, 2023.
3. Prabhakar Kandukuri et al. "OCL Based Approach for Sustainable ML Model Development." *E3S Web of Conferences*. Vol. 430. EDP Sciences, 2023.
4. Prabhakar Kandukuri et al, "A Novel Approach of Smart Water Flow Meter using IOT", International conference on Design and manufacturing aspects for sustainable energy, ICMED2021.
5. Prabhakar Kandukuri et al, "Project Based Learning through MOOCs", IEEE 6th International Conference on MOOCs, Innovation and Technology in Education – MITE2018, Nov 29-30, Hyderabad, India, 2018. IEEE.
6. Prabhakar Kandukuri, "Software Modernization through Model Transformations", International Conference on Artificial Intelligence & Cognitive Computing, AICC-18., 02-03, Feb 2018, Hyderabad, India, 2018.
7. K. Prabhakar et al, "A Queuing Theory Implementation of Time Slicing Based Multiprocessor Scheduling" Paper Published in International Conference on Emerging Technology Trends in Cloud Computing (ICETT-2011), Kerala-India-MAR 2011.

8. K. Prabhakar et al, "Implementation of Multi Scale Features and Group Based Models for Facial Emotion Identification of Video Pictures Using Deep Learning Techniques" *E3S Web of Conferences* (Accepted)

