

**About CBIT(A):** Chaitanya Bharathi Institute of Technology (Autonomous) has an ecosystem which caters to Research, Consultancy, Start-Ups, Incubations, Strategic Collaborative Association with Industries and Foreign Universities. The Institute is pioneering the development of an Artificial Heart in Collaboration with SHARE India / Pittsburgh University and Cornell University, USA. CBIT(A) has been standing as a temple of learning for the past 42 years. UGC has granted Autonomous status from the Academic Year 2013-14 onwards. The Faculty and Students have successfully executed Sponsored Research and Consultancy Projects, from various funding Agencies such as DRDO, ISRO, DST, AICTE and UGC. MHRD - Institute Innovation Cell (IIC), MSME - Business Incubation (BI), Hexagon 3D Innovation Lab, Cognizant Innovation Lab and Robotic Process Automation Lab have been established in the Research and Entrepreneurship Department, for the Students and Faculty to pursue their Research Interests.



**About CSE Department:** The Department of CSE was started in the year 1985 with an intake of 20. The intake was gradually increased to 180 with three sections. M.Tech programme was started in the year 2002 with an intake of 18 and increased to 36 in 2011. CSE department is a recognized research center under Osmania University. The department comprises of committed and well qualified staff. The intellectual ambiance in CSE Department is conducive to the overall development of the students and the discipline of Computer Science and Engineering as a whole. During the year 2020-21 sanction is accorded for two new programmes in emerging technologies: B.E (CSE with AI and ML) and B.E (CSE with IoT, Cyber Security with Blockchain) thus enhancing the intake of students from 180 to 300. The vision of CSE Department is to become a centre of excellence in the field of Computer Science and Engineering that produces innovative, skillful, socially responsible and ethical professionals.

**About Workshop:** In this Five-Day International e-workshop on “Building Data-Driven Solutions Using Data Analytics with ML and DL Algorithms”, the topics included are challenging areas with potential for excellent research. The takeaways from this workshop will add immense value to the knowledge base for each of the participants. This workshop will be based upon hands-on approach. Topics included in this workshop are NLP, Data science (Data preprocessing, EDA, Model Building, Model accuracy and model deployment) and computer vision.

**“ Humans can typically create one or two good models a week. Machine learning can create thousands of models a week.” - Thomas H Davenport, Analytics thought Leader**

**Objectives of the Workshop:**

- >To create awareness on Data Analytics and EDL using AI Algorithms.
- >To provide instructor-led hands-on live manipulation of Data.
- >To provide hands-on experience over Data Analytics using ML and DL.
- >To acquaint the participants with Research Opportunities in Data Science and Computer Vision.

**Expected Outcomes:**

Upon successful completion

- The participants will be acquire the concepts of data analytics and various tools related to data manipulation.
- Use the EDA to represent the data after preprocessing and analysis of data.
- Formulate the Research problems in Data Science, NLP and Computer Vision.

**Guidelines for Participants:**

Web Links are updated on WhatsApp Group.

E-Certificate will be issued to all the Participants, after successful completion of the e-Workshop.

Participants need to mark their attendance in the google form that will be circulated during the Session.

Use the following Link for Registration: <https://forms.gle/zbfPVjhZFcJQPf7b9>



## Department of CSE Organizes

## Five-Day International E-Workshop On

## Building Data-Driven Solutions Using Data Analytics with ML and DL Algorithms

24<sup>th</sup> – 28<sup>th</sup> June, 2021

**All Faculty, Research Scholars,  
Students and Industry  
Persons can participate**

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**Mr. Ashish Pandey,** Instructor Huawei, India

## Five-Day International

## E-Workshop

on

## Building Data-Driven Solutions Using Data Analytics with ML and DL Algorithms

### Workshop Sessions

**DAY-1: 24th June, 2021**

**Towards building real world  
trustworthy AI systems**

**DAY-2: 25th June, 2021**

**Information Gathering, Data  
Preprocessing, EDA, Data Modeling,  
Model Accuracy and Confusion Matrix**

**DAY-3: 26th June, 2021**

**End to end deployment of ML  
algorithm from model building**

**DAY-4: 27th June, 2021**

**Multi tasking techniques in deep  
learning**

**DAY-5: 28th June, 2021**

**Image classification using neural  
networks: basics to hands-on**