



**Two-week Industry  
Sponsored Online FDP  
on  
Data Engineering &  
Artificial Intelligence in  
Collaboration with  
Accure Pvt. Ltd  
(<https://www.accure.ai/>)**



**26th Dec, 2022 - 7th Jan, 2023**

**Organized by**

Department CSE & IT in  
association with AI-based  
M/s Accure Pvt. Ltd Bangalore

**Coordinator**

Md Akram Khan

Assistant Professor, IT Dept, BIT Sindri

**Co-Coordinator**

Dr. Dinesh Kr Prabhakar

Prof. Khustar Ansari

Prof. Deepak Kumar Ravi

**ABOUT BIT SINDRI**

BIT Sindri was started as the College of Mechanical and Electrical Engineering in 1949. The institute grew and flourished rapidly during the early days under the dynamic leadership of Prof. D. L. Deshpande, the Director, who is regarded as the architect of the institute. The institute is controlled administratively by the Department of Higher & Technical Education, Govt. of Jharkhand. . The institute offers B.Tech. courses in 10 disciplines of engineering, and 10 M.Tech. specializations and doctoral programs in different departments. The institute has been ranked by NIRF and accredited by NAAC also.

**ABOUT ACCURE AI Pvt Ltd, BANGLORE**

Accure offers data engineering, AI platforms and professional services to build, deploy and manage AI at the enterprise scale.

It connect people and technologies to prototype, build, deploy and scale enterprise AI. Accure engineered Momentum to accelerate all phases of AI development.

Accure's mission is to partner with governments, enterprises, and startups to solve data-driven challenges by using machine learning, computer vision, artificial intelligence, and NLP, powered by our software platforms and managed by people. Organization is providing Artificial Intelligence based solutions in the following areas:

- Banking and Finance
- Healthcare
- Manufacturing
- Oil & Gas.
- Aviation & Airspace
- Smart City.

**ABOUT SHORT-TERM COURSE**

Data engineering, sometimes called information engineering, is a software approach to developing information systems.

To be clear, data engineering encompasses sourcing, transforming, and managing data from various systems. As such, data engineering employs intricate methodologies for gathering and authenticating data that range from data integration tools to artificial intelligence.

Data engineering is important because it allows businesses to optimize data towards usability.

Whether business teams are dealing with sales data or analyzing their lead life cycles, data is present every step of the way.

Today, the amount of data that is generated, by both humans and machines, far outpaces humans' ability to absorb, interpret, and make complex decisions based on that data. Artificial intelligence forms the basis for all computer learning and is the future of all complex decision making.

**OBJECTIVE OF THE COURSE**

- To provide an in-depth knowledge with practical applications through theoretical session blended with hands-on experiments.
- To enhance the skills of participants to make them well equipped with the current state-of-the-art technologies.
- To provide thorough application oriented and problem-based learning with real life examples.
- To equip the faculty to make utmost competent to capture the knowledge urge of modern-day students.

## COURSE CONTENTS

The course is designed for non-programmers who want to perform the functions of data engineering and machine learning by leveraging an easy-to-use platform, Momentum. The course is broken down according to the roles of functions that perform various tasks of solving data-driven and AI-based solutions like:

- Big Data Engineering
- Machine learning for prediction
- MLOPs
- Computer Vision
- Visualization and Business Intelligence

### Use Cases:

1. Chest X-ray Anomaly Detection
2. Energy demand prediction based on weather
3. Machine parts failure prediction for predictive and preventive maintenance
4. Driver distraction detection for accident prevention
5. Digital Twin: Simulate Gas Law ( $PV = nRT$ ) using deep learning
6. Prediction of hourly power plant output
7. Digital Twin: Simulating mine transportation and interaction of systems to determine collision or accidents
8. Predicting weather conditions
9. Predicting customer churn
10. Heart failure prediction
11. Prediction of myopia

## ORGANIZING COMMITTEE

### PATRON

Prof. D. K. Singh, Director, BIT Sindri

### CONVENER

Prof. S. C. Dutta, HOD (CSE & IT), BIT Sindri

### COORDINATOR

Prof. Md Akram Khan, Asst. Prof., IT Dept.

### CO-COORDINATOR

Dr. Dinesh Kr Prabhakar, Asst. Prof. IT Dept.  
Prof. Khustar Ansari, Asst. Prof. CSE Dept.  
Prof. Deepak Kumar Ravi, Asst. Prof. CSE Dept.

## EXPERTS/ SPEAKERS

- **Mr. MOGHISUDDIN RAZA**, Co-founder and COO, Accure Pvt Ltd. Bangalore.
- **Mr. SHAMSHAD (SAM) ANSARI** President and CEO, Accure Pvt Ltd. Bangalore.
- Experts from Accure Pvt. Ltd. Bangalore

## VENUE AND TIME

The training program will be conducted online using the Zoom platform daily in the evening from 16:00 to 18:00. The link is given below  
<https://us06web.zoom.us/j/5524410535?pwd=ZVlRRFVmd1htNTRhdEVmdVNEdlE1Zz09>

## COURSE REGISTRATION FORM

Online link to the registration form is attached below. The last date for re. Registration form link:

<https://forms.gle/9btyyeEmW28fugwy7>

Scan the QR code and fill the registration form



### CONTACT US

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<https://www.accure.ai/>