

# **Workshop on Machine Learning and AI**

**Organised by: CSE(Data Science) and R&D cell BCREC.**

**Technical partner: ACM Chapter BCREC.**

**Venue: Albert Einstein Hall, Main Building, BCREC Campus**

**Date: 9th April 2025(01:50 PM- 05:10 PM)**

## **Event Schedule:-**

- 1:55 PM – 2:00 PM – Opening & Welcome Speech
- 2:00 PM – 2:10 PM – Introduction of the Speaker & Speaker's Felicitation
- 2:10 PM – 3:00 PM – Workshop – Session 1
- 3:00 PM – 4:00 PM – Workshop – Session 2 Hands-on Activities
- 4:00 PM – 5:00 PM – Hands-on Activities & Q/A Session
- 5:00 PM – 5:10 PM – Vote of Thanks & Closing Remarks

## **Course Work:-**

### **Hour 1 :- Fundamentals of Machine Learning**

- Introduction to Machine Learning (ML) (15 min)
- Understanding ML Workflow (15 min)
- Hands-on: Dataset Exploration (30 min)

### **Hour 2 :- Implementing ML Algorithms**

- Supervised Learning - Classification(Logistic Regression & Decision Tree)(20 min)
- Supervised Learning - Regression (Logistic Regression)(20 min)
- Unsupervised Learning - Clustering (K - Means)(20 min)

### **Hour 3 :- Advanced Topics & Q/A**

- Ensemble Learning - Random Forest (30 min)
- Model Evaluation & Hyperparameter Tuning (15 min)
- Q/A Session (15 min)