# A Faculty Development Program

Innovating with Machine Learning & IoT

[09th Dec - 20th Dec , 2024] [4:00 PM to 8:00PM]

under the aegis of Electronics & ICT Academy IIT Roorkee



## Supported by

Ministry of Electronics & Information
Technology
Government of India

## **Experts from Academia/Industry**

## Registration Fee

Fees: ₹ 500/participant, non refundable (Applicable for all)

Note: Refund will be done in case of course cancellation only, with in 20 working days

# Certificates to participants by E&ICT Academy IIT Roorkee

Hybrid Mode: Chitkara University,
Himachal Pradesh

## Why this course?

This course bridges the gap between IoT and machine learning, emphasizing practical, realapplications. Participants will world gain foundational knowledge in Python and ML, and learn to handle, transform, and analyze IoT data Hands-on effectively. labs will empower participants to implement data analysis techniques and model building, making them capable of solving industry-specific problems using IoT and ML technologies.

## Objectives of the course

- Equip participants with Python programming skills for ML.
- Introduce IoT fundamentals and their integration with ML.
- Demonstrate data transformation techniques for IoT-MI, workflows.
- Highlight the importance of feature engineering in ML.
- Explore practical handling and cleaning of IoT sensor data.
- Familiarize participants with IoT data frameworks and cloud platforms.
- Provide hands-on labs to apply learned concepts on real-world data.

### **Course Features**

- 40 Hours of Lectures & Hands-on (Hybrid Mode)
- Lectures from Expert Speakers, Hands-on from industry experts
- Expert talks from the industry
- Access to learning material and video lectures
- Certificate by E&ICT Academy IIT Roorkee

#### Focus Area

- Python for ML
- Data transformation techniques
- Feature engineering
- · IoT data frameworks
- Cloud concepts for IoT-ML
- · Anomaly detection and clustering
- Regression and classification models

## Prerequisites

 No experience is required, but fundamental knowledge of any programming language would be helpful

## **Registration Link**

https://forms.gle/gufiFzAwZKGC31BQ8

## **Principal Investigator:**

Prof. Sanjeev Manhas E&ICT Academy, IIT Roorkee

## How to make payment

https://eict.iitr.ac.in/instruction-for-payment/ Conference Code: EICTITR-FDP-24-19

## **Course Coordinators**

- Prof. Sanjeev Manhas, ECE Department, IIT Roorkee
- Dr. Abhishek, Associate Professor (CSE), Chitkara University, Himachal Pradesh

#### **Reach Us:**

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