

# Online Faculty Development Program

on

## Applied Data Science for AutoML, AIaaS, and Responsible-AI using Python

[26 Aug - 30 Aug, 2024]

under the aegis of

**Electronics & ICT Academy  
IIT Roorkee**



Supported by

Ministry of Electronics & Information Technology  
Government of India



Experts from Academia/Industry

**Principal Investigator**

**Prof. Sanjeev Manhas**  
E&ICT Academy, IIT Roorkee

**Certificates to participants by E&ICT  
Academy IIT Roorkee**

**Hybrid Mode: ABES Engineering  
College, Ghaziabad**

### Why this course ?

Faculty Development Programme is conducted to focus on the fundamentals of data science with hands-on sessions on applied data science especially AutoML, AIaaS, and Responsible-AI using Python to automate the application. Data Science is the interdisciplinary field to deal with the processes and systems used to extract knowledge from large amounts of data. For a few decades, every sector has focused on analyzing the data to use their businesses for future perspective. More trained people are required in this era to have good knowledge of data science and data analytics to fulfill the demands of the current era for the different business areas.

### Objectives of the course

- To provide a forum to exchange views, ideas & principles in the field of data science.
- To present learning on fundamentals, recent trends & challenges in analytics.
- To improve faculty's ability in carrying out research, testing & consultancy in Data Science.
- To introduce AutoML, AIaaS, and Responsible-AI and provide opportunities to further widen the knowledge and to pursue research with applied these in automation.

### Course Features

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

### Focus Areas

- Data science fundamentals
- Recent Research areas in data science
- Fundamental concept of AutoML, AIaaS, and Responsible-AI
- Applied Data Science in business automation and security era
- Data Science approaches to automate the system working and security challenges
- Case studies on the use cases
- Hands-on session using Python programming

### Prerequisites

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

### Registration Link

<https://forms.gle/PdBfBYtQwzgg7geZ9>

### Registration Fee

Fees: ₹ 750/participant, non refundable (Applicable for all)

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

### How to make payment

<https://eict.iitr.ac.in/instruction-for-payment/>

Conference Code: EICTIITR-FDP-24-08

### Course Coordinators

- Prof. Sanjeev Manhas, ECE Department, IIT Roorkee
- Dr. Divya Mishra (HOD), CSE Department, ABES Engineering College, Ghaziabad
- Dr. Anil Kumar Dubey, CSE Department, ABES Engineering College, Ghaziabad

### Reach Us:

Landline No.+91-332286457,M.No.- 8112766397  
Email: [eict@iitr.ac.in](mailto:eict@iitr.ac.in)