

Online Faculty Development Program

on

Data Science with Python 29th Mar - 11th Apr, 2023

under the aegis of
Electronics & ICT Academy
IIT Roorkee

Supported by

Ministry of Electronics & Information
Technology
Government of India



सत्यमेव जयते

Experts from Academia/Industry

Lecture from, IIT Roorkee

Mr. Sriraman, Devarty Technology

Principal Investigator

Prof. Sanjeev Manhas, IIT Roorkee

Certificates to participants by E&ICT
Academy IIT Roorkee



Class will be delivered
through online platform

Why this course ?

In 2012, Harvard Business Review dubbed Data Scientist the most exciting job of the 21st Century. Data Science has bagged the top spot in LinkedIn's Emerging Jobs Report for the last three years. Thousands of companies need team members who can transform data sets into strategic forecasts. Acquire in-demand data science and Python skills and meet that need.

Data Science and AI have taken the centre-stage as more and more brands realise the possibilities of these tools in the post-COVID world. The demand for data engineers was up 50% and the demand for data scientists was up 32% in 2020 compared to the prior year.

Objectives of the course

- To teach data preprocessing techniques with libraries like Numpy and Pandas.
- To demonstrate data visualization with Matplotlib and Seaborn.
- To teach data manipulation (Sorting, filtering, duplicate merging etc)
- To teach Machine learning & deep learning.
- Application of image processing.
- To encourage the adoption of data analytics techniques in research and teaching.

Course Features

- 40+ Hours of live instructor-led classes
- Lectures from IIT Roorkee, Hands-on from industry experts
- Expert talks from industry
- Doubt clearing sessions
- Access to learning material and video lectures
- Certificate by E&ICT Academy IIT Roorkee

Focus Areas

- Introduction to Python Programming
- String Objects and Collection
- Tuples, Set, Dictionaries & Functions
- Python Pandas
- Data Manipulation: Cleaning - Munging
- Data Analysis: Visualization Using Python
- Short Introduction to Statistics and Mathematics in AI
- Machine Learning
- Linear Regression
- Logistic Regression
- Unsupervised/ Clustering
- Introduction of Decision Tree and Random Forest
- Application of image Processing
- Deep Learning

Prerequisites

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

Registration Link

<https://forms.gle/h6q1W6DYXVWFVW8Y6>

Registration Fee

Fees: ₹ 800/participant, non refundable
(Applicable for all)

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

How to make payment

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

Conference Code: EICTIITR-FDP-23-03

Course Coordinators

- Prof. (Dr) Pramod Kumar, Dean Academics
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