

# Online Certification Course

on

## Data Science using Python

[04 January - 17 January, 2021]

[Evening Batch - 5 PM onwards]

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

Prof. R. Balasubramanian, IIT Roorkee

Prof. Partha Partim Roy, IIT Roorkee

Mr. Pranjal Mishra, Devarty Technologies

Expert talks from Industry

Principal Investigator

Prof. Sanjeev Manhas, IIT Roorkee

Certificates to participants by E&ICT

Academy IIT Roorkee



Class will be delivered through  
online platform

### Why Data Science ?

Data Science has become an essential part of everyday life and emerged as a critical component of modern business intelligence in recent years. Its algorithms are becoming ever necessary due to various factors like growing volumes and varieties of available data, computational processing that is cheaper and more powerful, and affordable data storage.

Data Scientist has been named the best job – Forbes

### Objectives of the course

- Provide foundation of Python scripting and its principles
- Design and implement of real-world inspired ML and DL algorithms applications (Image Processing with MLP).
- Boost your career prospects through innovative and independent learning
- Project work with real life problems (Hand written optical image recognition and Exploratory analysis on Covid 19)

### Course Features

- 40+ Hours of live instructor-led classes
- Lectures from IIT Roorkee, Hands-on from industry experts
- Expert talks from industry.
- Career guidance sessions from the experts
- 3 hrs of doubt clearing sessions on weekend
- Access to learning material and video lectures
- Certificates by E&ICT Academy IIT Roorkee

### Focus Areas

- Introduction to packages in Python
- Numpy, Pandas, EDA
- Supervised and Unsupervised Learning
- Linear Regression, Logistic Regression
- Clustering, K-means
- NLP (Natural Language Processing)
- Image processing with MLP (Multi-layer perceptron)
- Projects and Assignments

### Prerequisites

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

### Registration Link

<http://tiny.cc/fv61tz>

### Registration Fee

Fees: ₹ 8000/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/Paymentdetails.html>

Conference Code: EICTIITR-SUM-14

### Course Coordinators

- Prof. R. Balasubramanian, CSE Department, IIT Roorkee
- Prof. Partha Pratim Roy, CSE Department, IIT Roorkee
- Prof. Sanjeev Manhas, ECE Department, IIT Roorkee

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