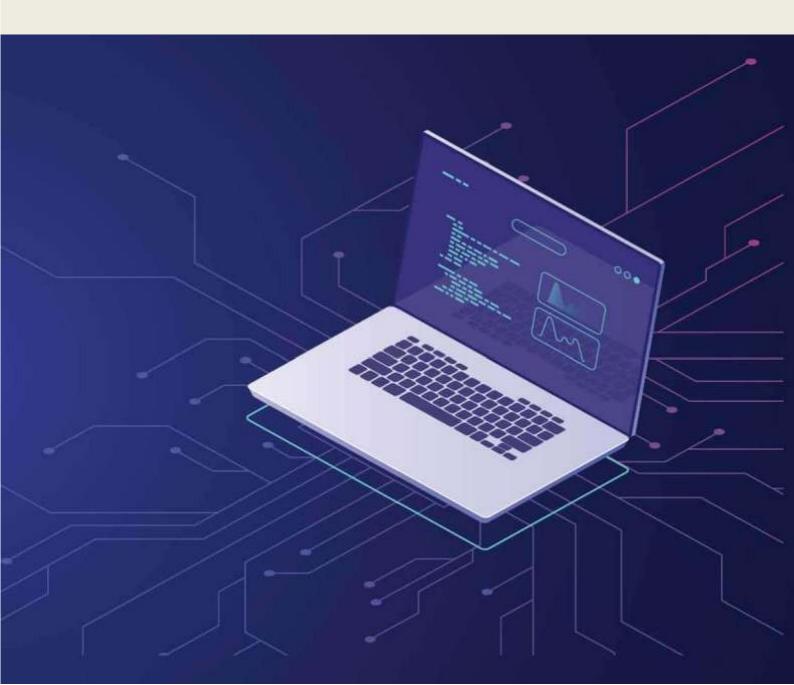


E&ICTAcademy, **ITRoorkee**

Applied Data Science and Machine Learning With Python

Certification Program By E&ICT Academy, IIT Roorkee



Why Become a Data Scientist and Machine Learning Engineer

In today's evolving business environment, **data has been crowned the universal currency**. Competitive advantage is now also synonymous with how organizations can gather, analyze and assimilate learnings from data. 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.

Demand for data analysts has shot through the roof over the last 5 years. And, thanks largely to data coming in from the Internet of Things and advances in cloud computing, global data storage is set to grow from 45 zettabytes to 175 zettabytes by 2025. Data science salary is quite lucrative and that is why many young IT aspirants are choosing data science as their career option.



About IIT Roorkee



Indian Institute of Technology - Roorkee is among the foremost institutes of national importance in higher technological education and in engineering, basic and applied research. The Institute ranks amongst the best technological institutions in the world and has contributed to all sectors of technological development. It has also been considered a trend-setter in the area of education and research in the \Box eld of science, technology, and engineering.

About E&ICT Academy

Electronics & ICT Academy IIT Roorkee (E&ICT IITR) is an initiative supported by MeitY, Govt of India. EICT IIT Roorkee delivers FDPs and certification courses in online as well as offine mode. Our courses lay emphasis on bridging the gap between industry demand and academic approach to learning and provide a foundation to build your career in the industries related to the ICT sector. All our courses have projects with reallife problems to give industry insights into learning. We have assimilated academic as well as industry experts to formulate the most effective courses that help professionals, students and faculty to upgrade their skills without disrupting their regular schedule.

Achievements



Category of NIRF Rankings 2020



NIRF Rankings2020



Among the IITsin the 'Citations per Faculty' parameter in QS World University Rankings, 2021



Best university in India by the Times Higher Education (THE) World University Rankings 2019

Who should attend this Program?



Designed for Students/ Working Professionals, Fresh Graduates, Self-starters, Career transformers with essential work experience.



Program Features



Program Highlights



Roorkee Faculties

Faculties and Course Advisors



Prof. Sanjeev Manhas E&ICT Academy, IIT Roorkee

Principal Investigator KnowMore



Partha Pratim Roy CSE Department, IIT Roorkee

Expert from Academia Know More



Prof. Debi Prosad Dogra Electrical Dept,, IIT Bhubaneswar

Expert from Academia Know More



Kaushlendra Singh SisodiaProgramDirector at Uniconverge Technologies, IITKanpur Alumni





Mr. Sanjay Aggarwal Uniconverge Technologies Pvt. Ltd.

Expert from Industry Know More

Post Training Assistance

- Career Guidance Opportunities
- Long Term Internship Opportunity
- Long Term Mentorship
- Projects Support



Career Guidance Opportunities



Long Term Internship Opportunity



Long Term Mentorship



Projects Support

Course Curriculum

Introduction to Python Programming

- Python Installation
- **String Operations**
- Data Structures in Python
- **Control & Loop Statements in Python**
- Functions & Classes in Python
- Regular Expression
- Object Oriented Programming

Data Science and Machine Learning

- **Data Science Introduction**
- Machine Learning Introduction
- **Python Essentials**
- **R** Language Essentials
- Maths For Data Science
- **Statistics For Data Science**
- Data Preparation With Pandas
- Visualization With Python
- Application of Machine Learning
- Machine Learning Associate

Course Curriculum

- Advanced Machine Learning
- **Deep Learning CNN Basics**
- Artificial Neural Network (ANN)
- Sql For Data Science
- Tableau Associate
- □ M1 Model Deploy- Flask API
- **Data Science Project Execution**
- Machine Learning Project Execution
- Big Data Foundation
- Hadoop Concepts
- Text Mining (Web Extraction/Sentiment & Symantic Analysis)
- □ Forecasting (Data Driven & Model Based Approach)
- Incubation and Entrepreneurship
- **Opportunities**
- **Q&A Session**
- **Project Discussion Session**
- **Career Guidance Session**
- Effective Resume Building



Jobopportunities in DS and ML

Data Scientists are needed for businesses in every Industry. Even fortune companies as Google, Amazon, Apple, Facebook, Microsoft need data science experts who have in-depth knowledge of data extraction, data mining, visualization, etc. Some of the leading data science careers are,



Business Intelligence Developer



Industry Architect



Data Scientist



Data Analyst



Applications Architect



Enterprise Architect



Machine Learning Engineer



Data Engineer

Top Companies Hiring in India



Test & Evaluation

The assessment for the theory & practical part is based on a knowledge bank of questions created by field experts and approved by E&ICT Academy.

To pass the qualification, every trainee should score a minimum of 50% cumulatively (Theory and Practical).

Assessment Comprises the Following Components:

- □ Attendance and Punctuality Report
- **Weekly Assignments (Theory Hands-On)**
- □ Weekly Tests (Basic-Advanced)
- Project
- Synopsis Process Report
- Complete Project Report

Program Offerings

Class Content

- Content Co-created with Industry
- Real-world project
- Project reviews
- Project feedback from Expert

Student Services

- Technical mentor support
- Student community

Career Services

- Personal Career Coaching
- Interview Preparations



Tools and Technologies



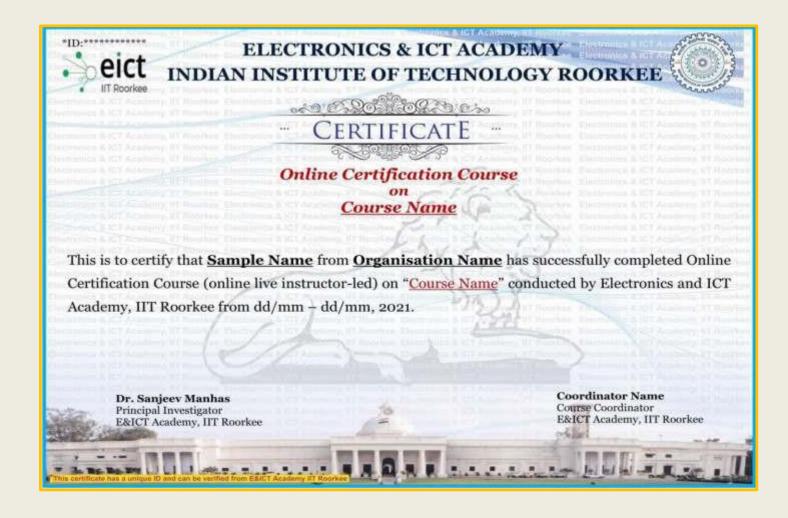
Skills Covered In Program

Python Programming	Numpy, Pandas, Matplotlib
Data Preprocessing,Data Visualization	Machine Learning, Supervised and unsupervised learning
DA 44	
Data Mining- Text Mining, Decision Tree, Arm, KNN & Naïve Bayse, ANN & SVM	Statistics, Hypothesis Testing, Linear and Logistic Regression
Deep Learning – Cnn Basics	Tableau, Big Data, Hadoop Concepts
NITK Natural Language Toolkit (NLTK)	Natural Language Processing (NLP)

Get eligible for 3 world-class certifications thus adding that the extra edge to your resume.

All successful participants will be provided with

- Certification of Completion from E & ICT Academy, IIT Roorkee
- A project completion certificate from Uniconverge Technologies
- Internship Certificate from Partner Companies



Course Details and Fees

Please find more information about the program and fees here:

https://eict.iitr.ac.in/certificate-course-in-ds-ml-using-python/

https://www.theiotacademy.co/applied-data-science-with-pythoncertification-program

Contact us at +91-8595486148, +91-9149130233

For Further Information Connect to

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For Business Inquiries

For corporate training, in-house or on-campus training, bulkenrollments, connect to us at programs.eictiitr@theiotacademy.co





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