

Online Certificate course in Data Science and Machine Learning



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30 Hrs. /6 Weeks (01 hour per day)

Seats: 50

Medium of Training: English

Last Date of Registration: 24/08/2022

Course Start Date: 01/09/2022

Objective

To develop the skills required for Machine Learning Technologies to use Python Language to analyze data, create beautiful visualizations, and problem solving using powerful machine learning algorithms.

Knowledge in Programming concepts and basic Mathematics

Eligibility

Prerequisite

- ✓ Candidate must have latest computer/laptop with preferably 4 GB RAM or higher and Graphics Card (2 GB)
- ✓ Internet connection with good speed (preferably 2Mbps or higher)

Rs. 1500/- (Including GST)

Course Fees

Certificate

Certificate will be issued to the participants based on the marks scored in the examination conducted after the completion of training.

- ✓ Teaching Mode: Online
- ✓ Instructor-led live classes.
- ✓ Instructor-led hands-on lab sessions.
- ✓ Recorded Session Available

Methodology

Intended Users

The users can be people enthusiastic to jump into the world of Artificial Intelligence and the course is designed to be a ground-up approach where Python is taught as the programming language. Anyone who wants to set career in Data Science & Machine Learning will go for this course due to huge demand and opportunities in the IT market.

- ✓ Develop Python Programming Language Skills Required for Data Analytics and Machine Learning
- ✓ Able to use Descriptive & Inferential Statistics concepts in Data Analysis and Predictive Modeling
- ✓ Able to Analyze and Process the data using Numpy and Pandas Libraries
- ✓ Able to do Data Visualization using Pandas, Matplotlib, Seaborn, Plotly and Cufflinks
- ✓ Able to develop predictive models using Machine Learning Algorithms & Scikit tool Framework

Outcome

Course Content

Module 1: Python Programming

- An Introduction to Python
- Beginning Python Basics
- Python Program Flow
- Functions & Modules
- Exceptions Handling
- File Handling
- Classes in Python

Module 2: Data Science and Analytics

- An Introduction to Data Science and Analytics
- Data Analysis Using NumPy
- Data Analysis Using Pandas
- Data Visualization – Pandas, Matplotlib, Seaborn, Plotly and Cufflinks

Module 3: Statistical Learning

- Descriptive & Inferential Statistics,
- Probability Concept: Marginal, Joint & Conditional Probability, Bayes Theorem
- Probability Distributions,
- Entropy & Information Gain,
- Regression & Correlation,
- Confusion Matrix, Bias & Variance

Module 4: Machine Learning

- Introduction to Machine Learning
- Linear Regression
- Logistic Regression
- K-Means Clustering
- Decision Tree
- Random Forest
- K-Nearest Neighbours
- Support Vector Machine
- Naive Bayes

Faculty

Mr. Ripunjay Singh	Mr. Ishant Kumar Bajpai	Mr. Karthick Rajan
M.Sc.(Electronics)	M.Tech	M.E.
Mob. No. 9445220125	Mob. No. 9958016673	Mob. No. 8894014655
ripunjay@nielit.gov.in	ishant@nielit.gov.in	karthickrajan@nielitchennai.edu.in



रा.इ.सू.प्रौ.सं
NIELIT