

Appleton Innovations

Recognized by



Ministry of MSME, Govt. of India



Data Science Training

Data science training has to be top of mind for any learning and development team. Data Science has been termed the “Most Sexiest Job in the 21st century.” With our Data Science Training program, unearth the unique insights that drive informed Data Handling.

This Data Science course in collaboration with IABAC features exclusive hands-on sessions, masterclass, and Ask-me-anything sessions.

Syllabus

Module-1: Introduction to Data Science

- Overview of Data Science
- Need for Data Science
- Data Science Project life cycle
- Applications of Data Science

Module-2: Python for Data Science

- Introduction to Python
- Understanding Operators
- Variables and Data Types
- Conditional Statements
- Looping Constructs
- Functions
- Data Structure
- Lists
- Dictionaries
- Packages and Modules
- Understanding Standard Libraries in Python

Module-3: Data Analysis using Python

- Numpy Arrays
- Working with Numpy Arrays
- Working with CSV, Json, Excel, html and text data
- Web scrapping
- Introduction to pandas data frames
- Data Frames and basic operations with Data Frames
- Indexing
- Handling missing data

Module-4: Data Visualization

- Introduction to Data Visualization Tools
- Data Visualization using Matplotlib
- Data Visualization using Seaborn
- Creating Dashboards with Plotly and Dash
- Interactive data visualization using Bokeh

Module-5 : Recommendation systems

1. Introduction to Recommendation systems
2. Movie Recommendation systems
3. Restaurant Recommendation systems

Module-6 : Understanding the Statistics for Data Science

- Introduction to Statistics
- Measures of Central Tendency I
- Measures of Central Tendency II
- Understanding the spread of data
- Data Distribution
- Introduction to Probability
- Probabilities of Discrete and Continuous Variables
- Central Limit Theorem and Normal Distribution I
- Central Limit Theorem and Normal Distribution II
- Introduction to Inferential Statistics
- Confidence Interval and margin of error
- Hypothesis Testing, T tests
- Chi Squared Tests
- Correlation

Module-7: Predictive Modeling

- Introduction to Predictive Modeling
- Understanding the types of Predictive Models
- Stages of Predictive Models
- Hypothesis Generation
- Data Extraction, Data Exploration
- Reading the data into Python
- Variable Identification
- Univariate Analysis for Continuous Variables
- Univariate Analysis for Categorical Variables
- Bivariate Analysis, Treating Missing Values
- How to treat Outliers, Transforming the Variables
- Basics of Model Building
- Linear Regression
- Logistic Regression
- Decision Trees
- KNN
- Model Testing

Module-8: Capstone Project

You will engage fully in the process of designing Data Analytics, Solutions and product

Course Projects, Industry Projects



Real time Weather Data analysis



Forecast hourly bike rental demand



Zomato Restaurant Recommendation System



Creating Dashboard using Plotly dash



Movie Recommendation System



Used Cars Price Prediction



Demand Forecasting for Walmart



Predict Adult census income

Tools



Training Highlights

- **Course Completion Certificate**
- **50+ Hours Live Training**
- **Internships support**
- **Internship Certificate on successful project completion**
- **Accredited by IABAC**

Training Duration:

50+ hours

Two months (Training + Internship)

Training Fee:

RS 5300/- per student

For more details:

Appleton Innovations

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