Machine Learning
WITH PYTHON

Overview

Learn how to solve challenging data science problems by building powerful machine learning models using Python. This course follows a practical approach to employing various machine learning algorithms to real-world problems and helps you understand the underlying concepts and implementation in details.

Why Excelsior
Formula for Success

Join the Excelsior's Data Science community and get access to a comprehensive library of Data Science courses covering in-demand skills like Machine Learning, AI, Business Analysis and more. Practice real-world learning with our Mentorship Program that provide you a real world scenario projects. Get lifetime access to structured courses, industry-relevant labs, live projects, 24/7 support and more—all designed to help you master the perfect combination of business knowledge, technical skills and soft skills needed for your targeted job role! The Data Science Community is growing by 30% each year. Join now!

EXCELSIOR EDGE	DETAILS	OUTCOME
Small Batches	A maximum of 12 students in a batch	• Personalized attention from mentors • More comprehensive learning experience.
Dedicated RM	A dedicated and expert team of counsellors for guidance	• No wait for your questions to be answered or your concerns addressed. • 24X7 Support
Learning Analytics	Stay on track with a course, degree and career advisor	• Regular Progress Report to guide you properly in your learning journey • Assignment Scores & stats to know your progress
Q&A Forum (Data Science Community)	Engage with other learners and professional Data Scientists	• Real-time Industry updates • Support and guidance for doubts and projects
Unlimited Live Projects	Get real-life data science experience	• Master real-world skills to build Machine-Learning models • Highlight your CV

What you will learn
Curriculum

PHASE 1- PYTHON

- Introduction
- Python Environment
- Executing Python
- Python Numbers
- Python Strings
- Python Files I/O
- Python Exception
- Python Classes & Objects

- Python Basic Syntax
- Python Variable Types
- Python Operators
- Python Lists
- Python Tuples
- Python Dictionary
- Collections
- Debugging & Testing
- Regular Expression

- Python Design Making
- Python Loops
- Python Function
- Python Modules
- Testing
- Deploying Python Application
- Essential Packages

PHASE 2- DATA WRANGLING

- Black Box Introduction To Machine Learning
- Advance Excel

- Sql
- Tableau
- Essential Numpy

- Power Bi
- Alteryx
- Pandas
- Matplotlib

PHASE 3- MATHEMATICAL FUNDAMENTALS

- Statistics Concepts
- Linear Algebra

- Calculus
- Matrix Operations

- Probability
- Sampling Techniques
- Distributions

PHASE 4- PROJECTS **

- Breast cancer prediction
- Uber ride data analysis

- Sales forecasting
- Purchase behavior

- Recommendation system
- Customer churn

**These are sample projects, actual projects may vary as per compay requirements

Curriculum

PHASE 5- MACHINE LEARNING

- Linear Models For Classification And Regression
- Pre-Proposing Of Machine Learning
- Decision Trees
- Naives Bayes
- Composite Estimators Using Pipelines

- Model Selection & Evaluation
- Feature Selection & Dimensionality Reduction
- Nearest Neighbours
- Clustering Techniques
- Anomaly Detection

- Support Vector Machines
- Dealing With Imbalanced Classes
- Ensemble Methods
- Recommendation Engine
- Time Series Modelling
- Packaging & Deployment

PHASE 6- BIG DATA

- Introduction To Big Data
- Internal Details Of Spark

- Foundation Of Spark Using Rdd
- Data Wrangling Using Dataframes

- Packaging And Deployment Of Spark Applications

PHASE 7- PROJECTS **

- Loan eligibility prediction
- Retail Selling Price

- Driver availability prediction
- Lookalike model building

- Customer journey funnel analysis
- Anomalies and trends diagnostic analysis

**These are sample projects, actual projects may vary as per compay requirements

Why Excelsior
Career Support

Profile Building

Excelsior's industry experts are the ultimate resource for anyone looking to build their profile

- Resume Building
- LinkedIn Profile Building
- Github Building

Expert Sessions

Excelsior offer expert advice on softskills and HR topics

- Counselling Sessions with Real Data Science experts
- Prepare for HR Interviews
- Learn Interviewers Psychology
- Develop Soft-Skills

Mock Interviews

Get an upper hand in a data science job interview? Prepare for high pressure interview scenarios.

- Live Interview Simulations
- Expert Feedbacks
- Prepare for real high pressure scenarios

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Connect with Us

Reach your goals

Speak with one of our experts today

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