DATA SCIENCE WITH PYTHON

Turn data into insights. Build models. Solve real problems.

4-MONTH PROGRAMME

COURSE FEE

INR 19,999/-

~~INR 79,980/-~~

75% OFF

SAVE INR 59,981

Build practical skills across the data science lifecycle

01 **PYTHON & DATA ANALYSIS**
Clean, explore and prepare real-world datasets.

02 **STATISTICS & MACHINE LEARNING**
Discover patterns and build predictive models.

03 **PROJECTS & MODEL DEPLOYMENT**
Turn analytical work into demonstrable solutions.

THREE CAREER & EARNING PATHWAYS

GET HIRED
Prepare for data analyst and junior data science roles.

FREELANCE
Take on data analysis and reporting projects.

BUILD
Create data-driven tools and applications.

HANDS-ON LEARNING • REAL-WORLD PROJECTS • CAREER GUIDANCE

Career guidance and project experience are provided; employment or income is not guaranteed.

FEEDNET TEACH
LEARN • BUILD • INNOVATE

COURSE CURRICULUM

FOUNDATIONS, PYTHON & DATA EXPLORATION

Learn the tools and methods used to prepare, understand and analyse data.

01 **PYTHON PROGRAMMING FOR DATA SCIENCE**

- Python syntax, data types, conditions, loops, functions and modules
- Data structures, reusable code and hands-on scripting

02 **NUMPY & PANDAS FOR DATA HANDLING**

- NumPy arrays, vectorized operations and numerical computation
- Pandas DataFrames, filtering, grouping, merging and data cleaning

03 **SQL & DATABASE FUNDAMENTALS**

- SQL queries, joins, aggregation, subqueries, CTEs and window functions
- Relational tables, keys and extracting data for analysis

04 **STATISTICS & PROBABILITY**

- Descriptive statistics, distributions, probability and sampling
- Correlation, hypothesis testing, confidence intervals and p-values

05 **DATA COLLECTION & PREPROCESSING**

- CSV, Excel, JSON, APIs and database connections
- Missing values, outliers, encoding, scaling and data quality checks

06 **EXPLORATORY DATA ANALYSIS (EDA)**

- Univariate, bivariate and multivariate analysis
- Pattern discovery, trend analysis, anomalies and business insights

07 **DATA VISUALIZATION & STORYTELLING**

- Matplotlib, Seaborn and visualization best practices
- Charts, dashboards and communicating analytical findings

08 **MACHINE LEARNING FUNDAMENTALS**

- Supervised vs. unsupervised learning and model workflow
- Train/test split, cross-validation, overfitting and baseline models

MODELLING, PROJECTS & PRACTICAL DELIVERY

Move from analytical foundations to model evaluation and applied solutions.

09 SUPERVISED MACHINE LEARNING

- Regression and classification algorithms: Linear, Logistic, Trees and Random Forest
- Model evaluation: MAE, RMSE, accuracy, precision, recall and F1

10 UNSUPERVISED LEARNING & FEATURE ENGINEERING

- Clustering, K-Means, dimensionality reduction and PCA
- Feature creation, selection, encoding and scaling

11 MODEL VALIDATION & IMPROVEMENT

- Cross-validation, hyperparameter tuning and model comparison
- Confusion matrix, ROC-AUC, error analysis and leakage prevention

12 INTRODUCTION TO DEEP LEARNING & DEPLOYMENT

- Neural network fundamentals and TensorFlow/Keras introduction
- Model saving, simple API deployment, integration and documentation

PROJECT-BASED LEARNING

01 Retail Sales Analysis & Insights

02 Customer Segmentation with Python

03 House Price Prediction / Regression

04 Customer Churn Prediction

05 End-to-End Data Science Case Study

FINAL CAPSTONE

End-to-End Data Science Solution

Define a problem, prepare data, explore insights, train and evaluate a model, then present findings and a working demonstration.

CAREER & INTERVIEW GUIDANCE