



Where trainees meet real Support

Data Science with Python

Build Intelligent Data-Driven Solutions

Duration: 20 Hours (Can be customized based on client requirements)

Mode: Online Instructor-led Training

Who Should Attend?

- Software Developers
- Python Developers
- Data Analysts
- QA Engineers
- Business Analysts
- IT Professionals transitioning into Data Science or AI

Course Objectives

- Understand Data Science lifecycle
- Prepare datasets
- Build ML models
- Evaluate models
- Apply regression, classification and clustering
- Understand deployment basics

Course Outline

Module 1: Python Essentials

- Python Fundamentals
- Functions
- Data Structures

Module 2: Data Preparation

- NumPy
- Pandas
- Cleaning
- Feature Engineering

Module 3: EDA & Statistics

- EDA
- Probability
- Hypothesis Testing

Module 4: Machine Learning

- Supervised
- Unsupervised
- Model Lifecycle

Module 5: Algorithms

- Regression
- Classification
- Clustering

Module 6: Evaluation & Deployment



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- Metrics
- Cross Validation
- Streamlit Introduction

Hands-on Projects

- Churn Prediction
- Loan Prediction
- Sales Forecasting

Tools & Technologies

Python, Jupyter Notebook, VS Code, NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, Streamlit, GitHub

Why This Program?

- Practical ML foundation
- Industry case studies
- Real-world projects
- AI career readiness
- Designed for career transition



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