



Where trainees meet real Support

Data Analysis with Python

Transform Data into Actionable Business Insights

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

Mode: Online Instructor-led Training

Who Should Attend?

- Software Developers
- Python Developers
- Business Analysts
- Data Analysts
- QA & Test Engineers
- Project Managers
- IT Professionals transitioning into Data Analytics

Course Objectives

- Build a strong Python foundation
- Analyze and clean data
- Perform EDA
- Create visualizations
- Generate business insights
- Automate reporting

Course Outline

Module 1: Python Fundamentals

- Python Basics
- Data Types
- Control Flow
- Functions
- Exception Handling

Module 2: Data Structures

- Lists
- Tuples
- Dictionaries
- Sets
- Strings
- File Handling

Module 3: NumPy

- Arrays
- Mathematical & Statistical Operations

Module 4: Pandas

- DataFrames
- Cleaning
- Filtering
- GroupBy
- Merge & Join



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Module 5: EDA & Visualization

- EDA
- Matplotlib
- Seaborn
- Dashboards

Module 6: SQL & Industry Case Studies

- SQL Integration
- Sales
- HR
- Customer Analytics
- KPI Dashboards

Hands-on Labs

- Sales Dashboard
- Customer Insights
- HR Analytics

Tools & Technologies

Python, Jupyter Notebook, VS Code, NumPy, Pandas, Matplotlib, Seaborn, SQL, Excel

Why This Program?

- Industry-oriented curriculum
- Hands-on labs
- Real-world datasets
- Portfolio-ready projects
- Career transition focused

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— BY THE DEVELOPERS' GROUP