

Python for Data Analysis (3 Months)

Duration: 3 Months (~120 Hours)

Mode: Live Online / Classroom

Designation after completion: Data Analyst (Python)

Tools & Technologies: Numpy, Pandas, Matplotlib, Seaborn, Jupyter Notebook

Certifications prepared: DataCamp / Coursera Data Analyst with Python

Detailed Syllabus (12 Weeks)

Week 1

- Python recap
- Assignment → Dataset exploration

Week 2

- Numpy arrays & operations
- Assignment → Weather data ops

Week 3

- Pandas DataFrames basics
- Assignment → Sales dataset import

Week 4

- Data cleaning techniques
- Assignment → Clean messy dataset
- Mock Interview 1

Week 5

- Data transformation
- GroupBy, pivot
- Assignment → HR dataset transform

Week 6

- EDA basics
- Outlier detection
- Assignment → EDA on banking dataset

Week 7

- Data visualization (Matplotlib)

-
- Assignment → Visualize sales report

Week 8

- Data visualization (Seaborn)
- Assignment → Visualize healthcare dataset
- Mock Interview 2

Week 9

- Time-series basics
- Assignment → Stock market data

Week 10

- Case study project
- Assignment → Case report

Week 11

- Mini Project: Sales Dashboard

Week 12

- Capstone Project: Market Trend Analysis
- Mock Interview 3

Mini Projects

Sales Dashboard
Market Trend Analysis