

Python Roadmap for Data Analysis (10 Points)

1. Python Basics – Variables, Data Types, Lists, Dictionaries, Loops, Functions.
2. NumPy – Arrays, Indexing, Mathematical Operations.
3. Pandas – DataFrames, CSV/Excel Handling, Filtering, Group By.
4. Data Cleaning – Missing Values, Duplicates, Formatting.
5. Data Visualization – Matplotlib and Plotly Charts.
6. SQL + Python – Connect Databases and Analyze Data.
7. Statistics – Mean, Median, Standard Deviation, Correlation.
8. Power BI + Python – Advanced Analytics and Reporting.
9. Machine Learning Basics – Regression, Decision Trees, Random Forest.
10. Real Projects – Sales Analysis, HR Analytics, Forecasting, Churn Prediction.