Syllabus Data Analyst (3–4 Months)

Module 1: Introduction to Data Analytics

- What is Data Analytics?
- Types of Analytics: Descriptive, Diagnostic, Predictive, Prescriptive
- Tools Overview: Excel, SQL, Power BI, Python

Module 2: Excel for Data Analysis

- Advanced formulas (IF, VLOOKUP, INDEX/MATCH, XLOOKUP)
- Pivot Tables, Pivot Charts
- Conditional Formatting
- Dashboards and Reporting

Module 3: SQL for Analysts

- Basic queries, WHERE, ORDER BY
- JOINs, GROUP BY, HAVING
- Window functions, Subqueries
- Real-world dataset querying

Module 4: Power BI

- Data connection and transformation (Power Query)
- DAX basics
- Reports, Charts, Maps
- Interactive dashboards and filters

Module 5: Python for Analytics

- Python basics
- Pandas for data manipulation
- Matplotlib/Seaborn for visualization

Module 6: Capstone Project

- Build a live analytics dashboard
- Clean and analyze dataset
- Present findings

Module 7: Career Prep

- LinkedIn optimization
- Mock interviews
- Portfolio building