

Data Analytics

Excel for Data Analytics

- Excel Basics & Data Handling
- Formulas & Functions
- VLOOKUP, INDEX-MATCH, IF Functions
- Pivot Tables & Pivot Charts
- Conditional Formatting
- Data Cleaning in Excel
- Dashboard Creation

SQL for Data Analytics

- Database Fundamentals
- SQL Queries (SELECT, WHERE, ORDER BY)
- Joins (INNER, LEFT, RIGHT, FULL)
- Aggregate Functions (SUM, AVG, COUNT)
- GROUP BY & HAVING
- Subqueries
- Window Functions

Python for Data Analytics

- Python Basics for Analytics
- NumPy for Numerical Operations
- Pandas for Data Analysis
- Data Cleaning & Manipulation
- Working with CSV, Excel & JSON Files

Exploratory Data Analysis (EDA)

- Data Understanding & Summary Statistics
- Data Distribution Analysis
- Correlation Analysis
- Outlier Detection
- Trend & Pattern Analysis
- Business Insights Generation

Data Visualization

- Matplotlib
- Seaborn
- Charts & Graphs
- Heatmaps & Pairplots
- Data Storytelling Techniques

Power BI for Business Intelligence

- Data Import & Transformation
- Power Query Editor
- Data Modeling
- DAX Functions
- Interactive Dashboards
- Report Publishing & Sharing

Data Cleaning & Preparation

- Handling Missing Values
- Removing Duplicates
- Data Transformation
- Feature Engineering Basics

Business & Analytics Concepts

- KPI Analysis
- Sales & Revenue Analysis
- Customer Segmentation
- Forecasting Basics
- Business Reporting

Data Integration & Automation

- Python + SQL Integration
- Connecting Databases to Power BI
- Automating Reports & Analysis

Real-world Projects

- Sales Analysis Dashboard
- Financial Data Analysis
- Customer Behavior Analysis
- Marketing Campaign Analytics
- Business Performance Dashboard

Tools Covered

- Microsoft Excel
- MySQL
- SQL Server Management Studio
- Python
- Jupyter Notebook
- Google Colab
- NumPy
- Pandas
- Matplotlib
- Seaborn
- Microsoft Power BI
- Git
- GitHub