



Data Visualization

S Y L L A B U S



Month 1: Foundations & Data Handling

Week 1 : Introduction to Data Visualization

- Importance of Data Visualization
- Types of Charts and Graphs
- Industry Use Cases

Week 3 : Data Cleaning & Preparation

- Handling Missing Values and Duplicates
- Filtering, Sorting and Data Transformation

Week 2 : Tools Setup & Basics

- Overview of Excel, Tableau, Power BI, Python
- Working with CSV, Excel, SQL, JSON Data

Week 4 : Databases & SQL for Visualization

- Database Basics
- SQL SELECT, Joins, Aggregations, Group By



Month 2: Visualization Tools & Techniques

Week 5 : Excel for Visualization

- Charts, Pivot Tables, Conditional Formatting

Week 7 : Power BI Fundamentals

- Data Modeling
- Interactive Reports & Publishing

Week 6 : Tableau Fundamentals

- Connecting Data, Filters, Calculated Fields
- Dashboard Creation

Week 8 : Python Visualization

- Matplotlib & Seaborn
- Scatter, Histogram, Heatmap, Boxplot



Month 3: Advanced Concepts & Projects

Week 9 : Design Principles & Color Theory

- Chart Selection Best Practices
- Accessibility and Color Usage

Week 11 : Advanced Dashboards

- Tableau Parameters & Actions
- Power BI Drillthrough and Bookmarks

Week 10 : Data Storytelling

- Presenting Insights Effectively
- Audience Focused Visualization

Week 12 : Capstone Project

- Real World Dashboard Development
- Project Presentation



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