

## **Tableau for Data Analytics & Visualization (Powered with AI)**

### **Module 1: Introduction to Tableau**

- What is Tableau?
- Tableau Products (Desktop, Public, Prep, Online, Server)
- Installation & Workspace Overview, - Data Types in Tableau
- Connecting to Different Data Sources (Excel, CSV, SQL, Web, etc.)

### **Module 2: Working With Data**

- Data Connection Types (Live vs Extract)
- Joins (Inner, Left, Right, Full)
- Data Blending, - Union, Relationships, - Understanding Metadata & Data Pane
- Using Data Interpreter

### **Module 3: Basic Visualizations**

- Bar Chart, Line Chart, Pie Chart, Area Chart
- Crosstab & Highlight Table, Text Table, Stacked Bars
- TreeMaps, Heat Maps

### **Module 4: Intermediate Visualizations**

- Dual Axis Charts
- Histograms
- Box Plots, Scatter Plots, Waterfall Chart
- Bullet Graph, Pareto Chart,
- Maps (Filled Map, Symbol Map)

### **Module 5: Calculations in Tableau**

- Basic Calculations
- String Calculations
- Number & Date Calculations
- Logical Functions
- Table Calculations (Rank, Running Total, YTD etc.)
- LOD Expressions (FIXED, INCLUDE, EXCLUDE)
- Parameter Creation & Use

### **Module 6: Filters & Sorting**

- Dimension vs Measure Filters, Context Filters
- Top/Bottom Filters, Date Filters,
- Sorting & Grouping
- Sets (Static & Dynamic)

## **Module 7: Tableau Mapping**

- Geographic Data Types
- Custom Geocoding
- Creating Map Layers
- Density Maps
- Path Maps
- Spatial Files & Shapefiles

## **Module 8: Dashboards & Storytelling**

- Dashboard Layout
- Actions (Filter, Highlight, URL)
- Device Designer
- Story Point Creation
- Dashboard Formatting
- Performance Optimization Tips

## **Module 9: Tableau Prep (Optional)**

- Cleaning Data
- Splits, Pivots & Aggregations
- Joins & Union in Prep
- Output to Tableau Desktop

## **Module 10: Publishing & Sharing**

- Publishing to Tableau Server / Tableau Online
- Permissions & Authentication
- Data Extract Refreshes
- Dashboard Embedding (Web / Shareable Link)

## **Module 11: Capstone Projects**

- Sales Dashboard
- HR Analytics Dashboard
- Financial KPI Dashboard
- Supply Chain Dashboard
- Customer Segmentation Dashboard
- Real-Time Data Dashboard (using API)

Duration: 15-20 Classes (1.5-2Hr)

**ADD: PLOT No. 8, VAISHALI ENCLAVE, METRO ROAD, PITAMPURA, DELHI-110034  
(NEAR GULAB SWEETS, OPP: METRO PILLAR NO. 350)**

**Website: [www.niceitservices.com](http://www.niceitservices.com) Ph: 9873459848, 7838152268**