

## **Fundamentals to Data Visualization and Tableau**

### **Learning Objectives:**

Gain a complete understanding of data visualization. Get introduced to the Tableau interface and learn to use various Tableau tools.

### **Topics:**

- Downloading Tableau
- Introduction to Data Visualization
- Introduction to Tableau
- Tableau Product Suite
- Tableau File Types
- Tableau Interface

## **Understanding Tableau Building Blocks**

### **Learning Objectives:**

You will be introduced to some of the most essential concepts and components of Tableau and different data types of data and fields.

### **Topics:**

- Dimensions and Measures
- Auto-Generated Fields
- Data Types
- Discrete and Continuous Fields
- Aggregation
- Granularity
- Marks Card
- Tableau Show Me

## **Managing Data Connections**

### **Learning Objectives:**

Gain a thorough understanding of file-based connections and learn about the Tableau metadata grid.

### **Topics:**

- Common File-based Connections (Excel, CSV)
- Common File-based Connections PDF Files
- Connecting to SQL Database
- Tableau Metadata Grid

## **Prepare Data for Use**

### **Learning Objectives:**

Get a complete overview of database, learn about fields, data extraction, and gain important Data Science skills.

### **Topics:**

- Data Interpreter
- Pivot Your Data
- Split Fields
- Joins
- Cross Database Joins
- Union
- Data Extracts
- Data Source Filters

## **Basic Data Visualization**

### **Learning Objectives:**

Learn to graphically represent data like a pro. Gain a solid understanding of different charts for data representation.

### **Topics:**

- Crosstabs
- Crosstab with Multiple Measures
- Highlight Tables
- Heat Map
- Column Chart
- Horizontal Bar Charts
- Stacked Column Chart
- Stacked Bar Chart
- Bar in Bar Chart
- Line Chart
- Line Chart – Discrete and Continuous
- Dual Axis Charts
- Blended Axis Charts

## **Advanced Data Visualization**

**Learning Objectives:**

Get introduced to the advanced concepts of Data Visualization. Learn about essential frameworks and topics like Pie Chart, Histograms, Area Chart, and a lot more.

**Topics:**

- Scatter Plot
- Pie Chart
- Treemaps
- Heat Map
- Packed Bubbles Chart
- Word Cloud
- Filled Maps
- Symbol Maps
- Histograms
- Area Chart

**Slicing and Dicing Data****Learning Objectives:**

Learn about the most important operations in data warehouses. Discover essential filters and buttons.

**Topics:**

- Sorting
- Hierarchies
- Groups
- Groups Visually or Using Labels
- Sets
- Filters
- Date Filters
- Dependent Interactive Filters
- Tooltip Command Buttons

**Tableau Basic Calculations****Learning Objectives:**

Learn about the most essential concepts of Tableau calculations. Learn to edit and create calculated fields.

**Topics:**

- Creating Calculated Fields
- String Functions Part 1
- String Function Part 2
- Date Functions
- Type Conversion Functions
- Logical Functions IF\_ELSE
- Logical Functions CASE\_WHEN
- Additional Logical Functions
- Grand Totals and Subtotals

## **Tableau Advanced Calculations**

### **Learning Objectives:**

Learn about the most important and advanced concepts of Tableau calculations like Quick Table Calculations, important Parameters, and more.

### **Topics:**

- Quick Table Calculations
- Level of Detail
- Fixed LOD
- Include LOD
- Exclude LOD
- Parameters

## **Formatting**

### **Learning Objectives:**

Formatting is one of the key pillars of Data Visualization and it's one of the most used and helpful tools for Data Visualization.

### **Topics:**

- Format Font
- Format Alignment
- Format Borders
- Format Shading
- Edit Axes
- Edit Axes – Date

## **Dashboard Designing**

### **Learning Objectives:**

Master dashboard design and development to edit and create stellar dashboards to help stakeholders gain meaningful insights from data.

### **Topics:**

- Dashboard Interface
- Dashboard Actions
- Device Designer
- Story
- Dashboard Containers
- Dashboard Design and Development

## **Publishing and Sharing**

### **Learning Objectives:**

Get a comprehensive training on sharing, exporting and publishing Tableau on Tableau Server and Tableau Public.

### **Topics:**

- Tableau Sharing and Exporting
- Publish to Tableau Online or Tableau Server
- Publish to Tableau Public