

# Tableau Assignment- 2

## Data Visualization using Tableau - Superstore Dataset

### Assignment Problem Statements:

**Data Set URL:** [https://github.com/Learn-With-Karthik/NCPL-DataAnalytics/blob/main/Tableau%20-%20Data%20Analytics%20and%20Visualization/sample\\_-\\_superstore.xls](https://github.com/Learn-With-Karthik/NCPL-DataAnalytics/blob/main/Tableau%20-%20Data%20Analytics%20and%20Visualization/sample_-_superstore.xls)

### Line Chart:

Create a line chart to analyze the monthly sales trend of the Superstore dataset. The chart should display the monthly sales over a specific time period (e.g., January 2017 to December 2020). Identify and highlight any significant fluctuations or patterns in the sales data. Provide insights and recommendations based on the line chart analysis.

### Bar Chart:

Design a bar chart to compare the total profit generated by different product categories in the Superstore dataset. Each bar should represent a product category, and the height of the bar should correspond to the total profit. Sort the bars in descending order to identify the most profitable categories. Include appropriate labels, titles, and color coding to enhance the clarity of the chart. Provide insights and observations based on the bar chart analysis.

### Pie Chart:

Create a pie chart to visualize the distribution of customer segments in the Superstore dataset. Each segment should be represented by a slice of the pie, with the size of the slice reflecting the proportion of customers in that segment. Include the percentage values within each slice and provide a legend for clear interpretation. Analyze the pie chart to identify the most significant customer segments and their contribution to the overall customer base.

### Hint:

- Before creating the visualizations, connect the Superstore dataset to Tableau and ensure that the relevant fields (e.g., sales, profit, product category, customer segment) are available for analysis.
- Use appropriate dimensions and measures to plot the line chart, bar chart, and pie chart accurately.
- Apply suitable formatting options to enhance the visual appeal and readability of the charts.
- Include titles, axis labels, legends, and other necessary annotations to provide context and clarity to the visualizations.
- Analyse the charts to derive meaningful insights, identify trends or patterns, and make data-driven recommendations.

**Note:** Feel free to explore additional variations or customizations to the charts based on your creativity and understanding of Tableau's features and functionalities.