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INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Category - I Deemed to be University) Porur, Chennai
SRI RAMACHANDRA FACULTY OF ENGINEERING AND TECHNOLOGY

CSE 260- DATA VISUALIZATION TOOLS AND TECHNIQUES

CA-4 ASSIGNMENT

SUBMITTED BY

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BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

(Artificial Intelligence and Data Analytics)

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DATASET:

E-Commerce Sales- The dataset for this project is a comprehensive collection of sales orders, designed to provide a detailed view of various aspects of the sales process. It includes 24 columns, each offering specific insights into different dimensions of the sales transactions. Key identifiers like Order ID and Customer ID help in tracking individual orders and customer interactions. Temporal data points such as Order Date, Ship Date, and order year/month allow for trend analysis and performance tracking over time. The inclusion of demographic information, such as City, State, Country, and Region, enables geographic segmentation and market analysis. Additionally, customer-related data such as Customer Name and Segment provide deeper understanding of customer demographics and behavior.

Furthermore, the dataset contains detailed product information, including Product ID, Category, Sub-Category, and Product Name, which is essential for product performance analysis. Financial metrics such as Sales, Profit, Discount, and Shipping Cost help in evaluating the financial health of the business and identifying areas for improvement. Operational aspects are captured through columns like Ship Mode, Order Priority, and Delivery Days, which can be used to assess and enhance supply chain efficiency. Overall, this dataset is well-suited for creating a comprehensive and insightful Tableau dashboard that will enable stakeholders to make data-driven decisions and strategize effectively.

STORYBOARD:







Sales Performance Analysis Story Board

[Total Sales By Country](#)
[Highest Sold Category](#)
[Total Sales By Ship Mode](#)
[Profit & Discount Trends](#)
[Total Sales By Market](#)
[Discounted Sales For Each Category](#)
[Total Sales Performance](#)

Total Sales By Country

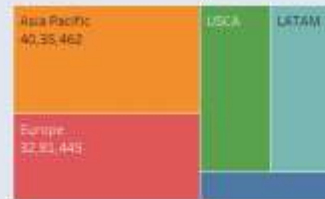


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Total Sales By Ship Mode

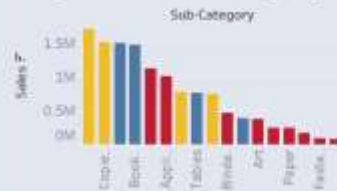


Total Sales By Market



Date Range: 01-01-2012 to 01-01-2012
 Category: Furniture, Office Supplies
 Market: Africa, Asia Pacific, Europe, LATAM
 Ship Mode: First Class, Same Day, Second Class
 Sales: 10 to 250
 Measure Names: Discount

Highest Sold Category



Profit & Discount Trends



Discounted Sales



KEY METRICS:

Primary KPI:

- **Total Sales**

Supporting KPIs:

1. **Sales by Country:** Highlighting the geographical distribution of sales.
2. **Sales by Category:** Identifying the top-performing product categories.
3. **Sales by Ship Mode:** Analysing the preferred shipping methods and their contribution to sales.
4. **Profit and Discount Trends:** Understanding profitability and discount strategies.
5. **Sales by Market:** Exploring sales performance across different markets.
6. **Discounted Sales for Each Category:** Analysing the impact of discounts on different categories.

Breakdown of Story Points:

1. Total Sales by Country

- **Visualization:** World map highlighting sales per country.
- **Insight:** "The highest sales are from the United States, and the least sales are from Laos."

2. Highest Sold Category

- **Visualization:** Bar graph showing sales by sub-category.
- **Insight:** "The highest sold products are Phones from Technology, and Labels are the least sold from Office Supplies."

3. Total Sales by Ship Mode

- **Visualization:** Pie chart illustrating sales by ship mode.
- **Insight:** "Most of the sales by ship mode are from Standard Class."

4. Profit and Discount Trends

Profit Trends:

- Lowest Profit: July 2012 with \ \$3,928.
- Highest Profit: September 2015 with \ \$67,409.

Discount Trends: The discount trend follows a somewhat similar pattern to profit trends but shows more fluctuations over time.

5. Total Sales by Market

- **Asia Pacific:** The highest total sales \$4,035,462.
- **Europe:** The second highest total sales \$3,281,445.
- **USCA:** Total sales of \$2,358,033.
- **LATAM:** Total sales of \$2,159,583.
- **Africa:** The lowest total sales \$781,499.

6. Discounted Sales for Each Category

- **Highest Discounted Sales:** Chairs in the Furniture category.
- **Lowest Discounted Sales:** Labels in the Office Supplies category.