## **Superstore Dataset - EDA Report**

#### 1. Introduction

This report summarizes the Exploratory Data Analysis (EDA) performed on the Superstore dataset.

#### 2. Data Overview

The dataset contains records of orders including sales, profit, category, region, and other business aspects. No missing values were found.

### 3. Key Findings

- Technology category has the highest sales and profit margins.
- Furniture category has significant sales but lower profits.
- Higher discounts are associated with lower profits.
- The West region is the most profitable, while the South region struggles with profits.
- High sales values do not necessarily guarantee high profits.

# 4. Visual Insights

- Correlation heatmap shows negative correlation between discount and profit.
- Pairplots reveal patterns between sales, quantity, discount, and profit.
- Scatterplot indicates many high-sales orders yield losses.
- Boxplots show regional differences in profitability.
- Barplots show Technology's dominance in sales and profit.

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## 5. Conclusion

The EDA highlights that optimizing discounts and focusing on profitable categories and regions could significantly improve business performance.

Continuous monitoring and analysis are recommended.