# Exploratory Data Analysis (EDA) and Business Insights

- Krushit Ghevariya

1. Regional Distribution of Customers:

- The majority of customers are concentrated in specific regions, indicating potential target markets for marketing and sales efforts. Identifying these regions can help in tailoring marketing strategies to regional preferences.


Number of Customers by Region
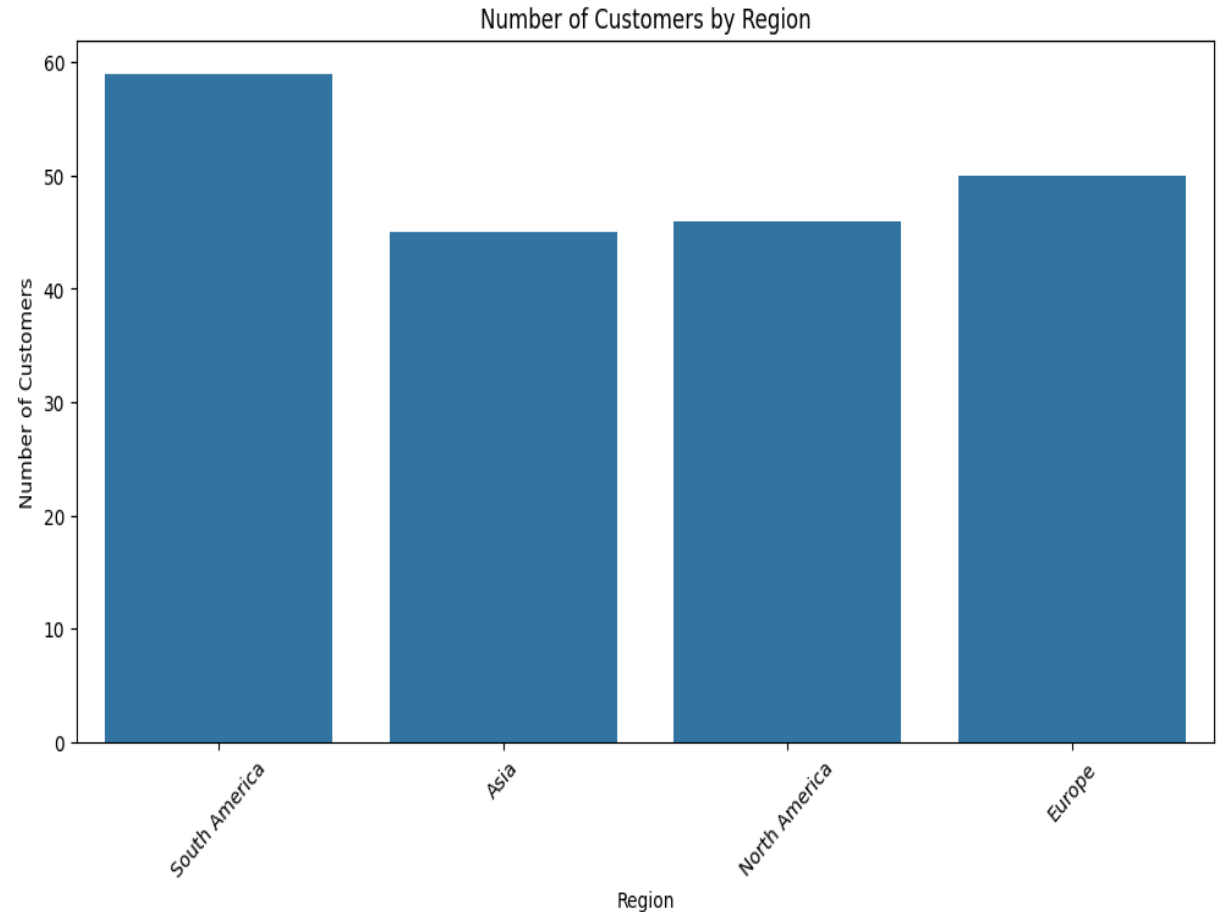
2.Transaction Trends Over Time:

- The analysis of transactions over time reveals periods of high and low activity. This insight can be used to understand seasonal trends and plan marketing campaigns during peak periods to maximize revenue.
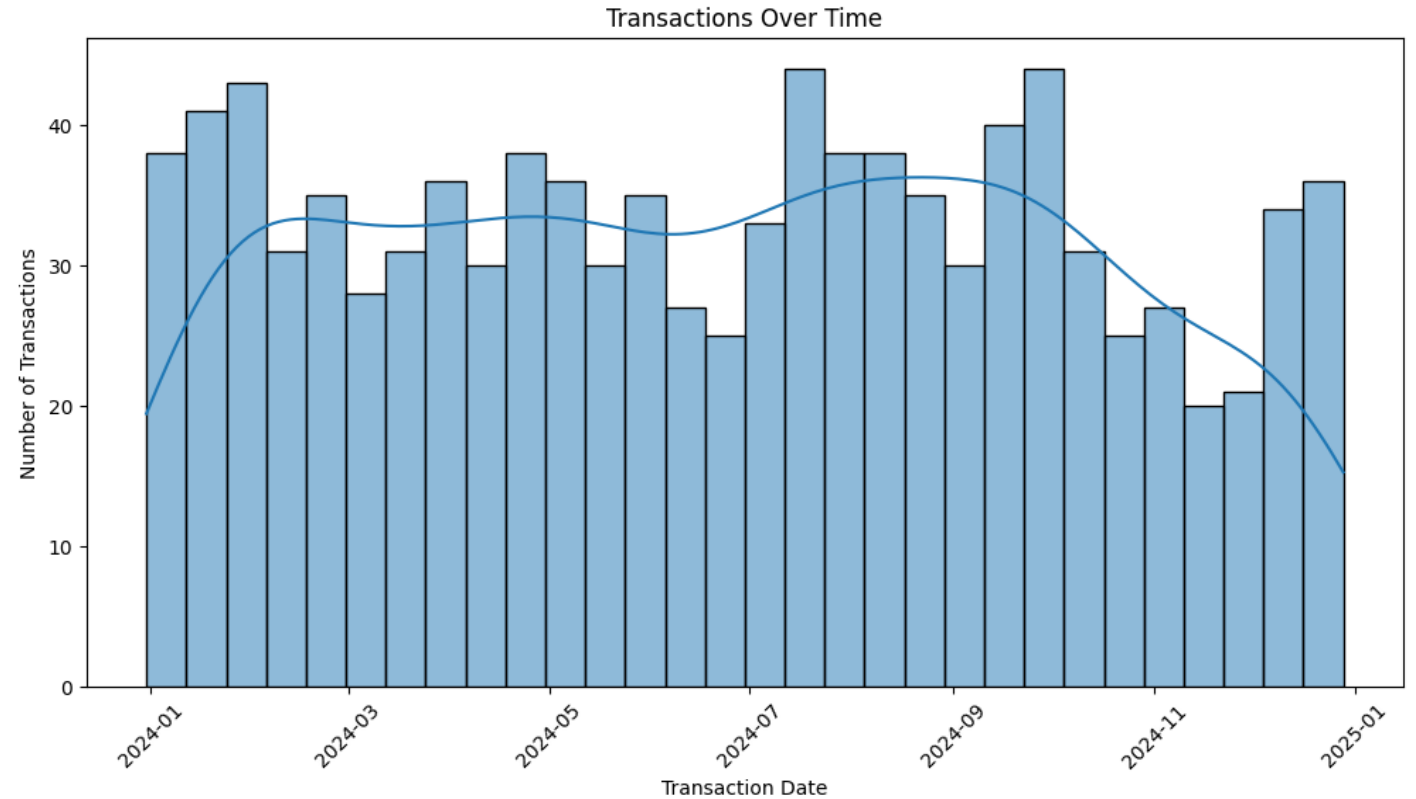
3.Product Pricing Distribution:

- The distribution of product prices shows a wide range of prices, suggesting a diverse product portfolio. Analyzing which price ranges generate the most revenue can help in optimizing pricing strategies.


Distribution of Product Prices
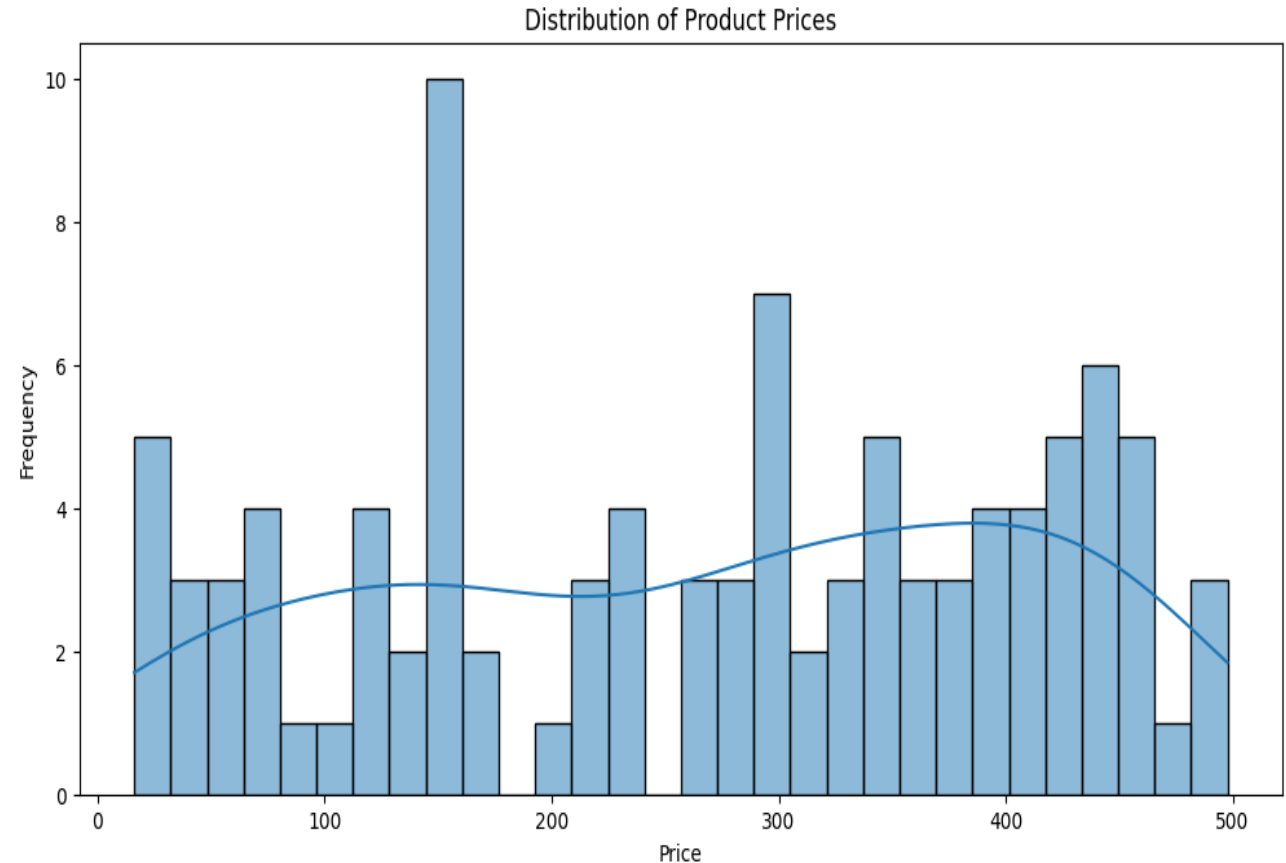
4.Total Transaction Value by Region:

- The total value of transactions varies significantly by region. Regions with higher transaction values can be prioritized for expansion, while regions with lower values may need targeted marketing efforts to boost sales.

Total Value of Transactions by Region
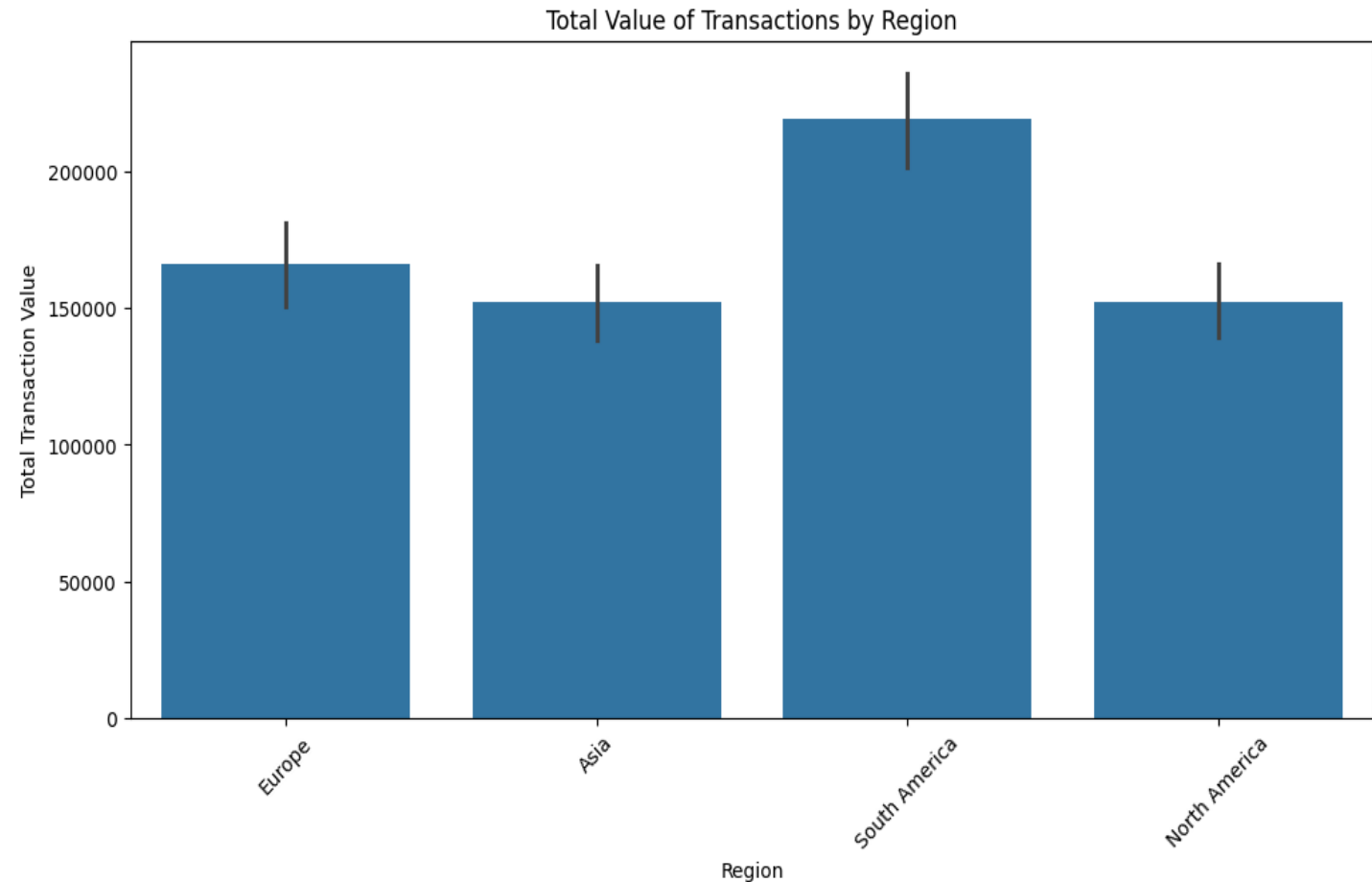
5. Average Spending per Customer by Region:

- The average spending per customer differs across regions, indicating varying purchasing power and preferences. Tailoring product offerings and marketing messages to each region's spending habits can enhance customer satisfaction and increase sales.

Average Spending per Customer by Region
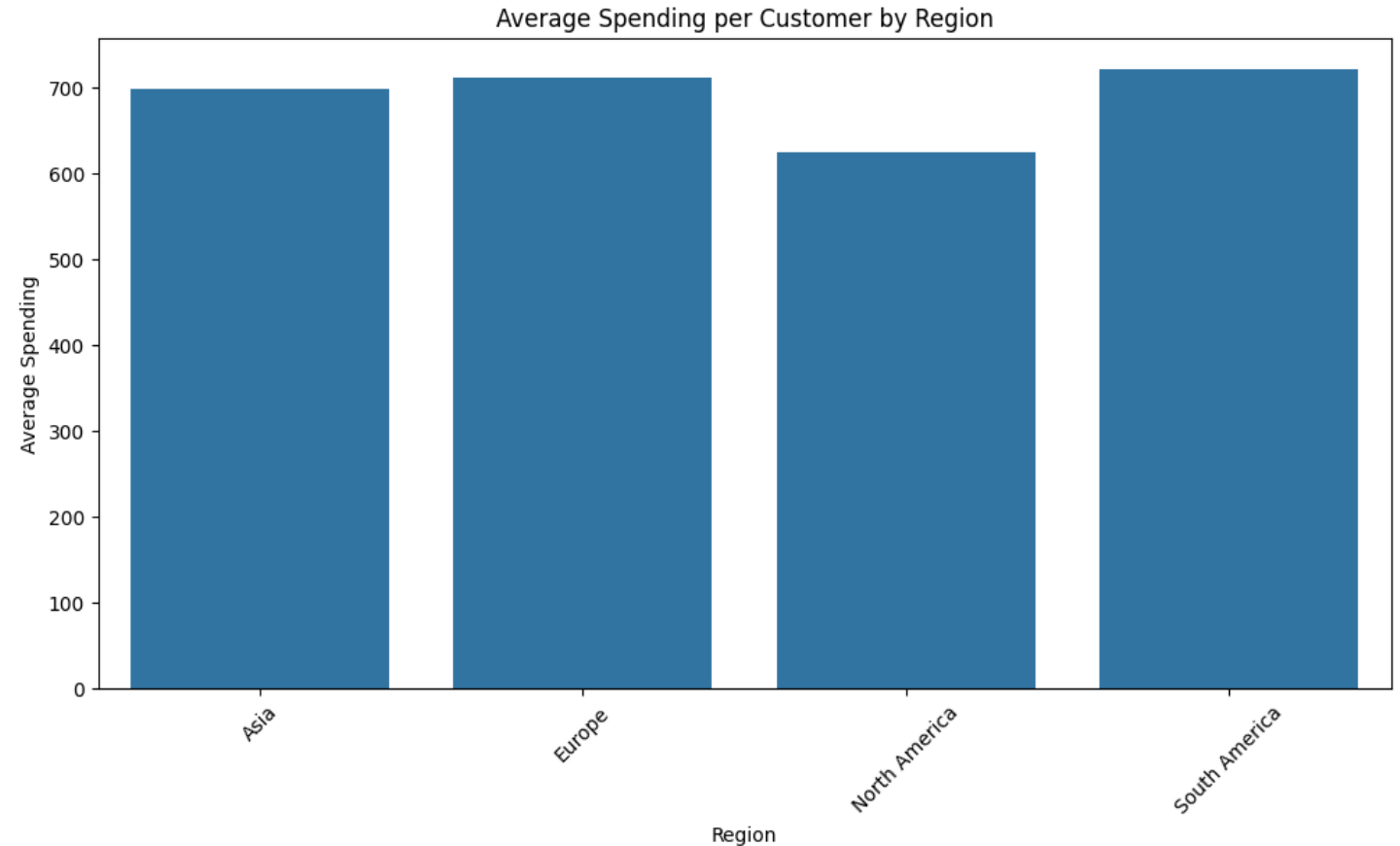
- By leveraging these insights, businesses can make data-driven decisions to improve customer engagement, optimize pricing, and enhance overall profitability.