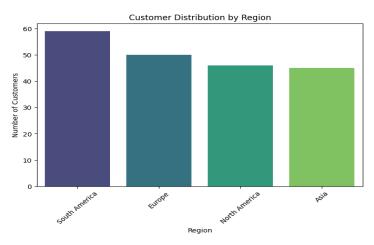
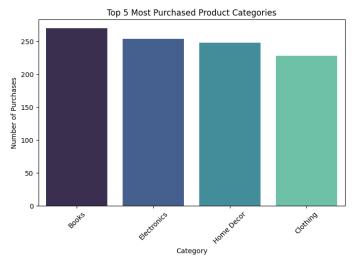
Business Insights from EDA on E- Commerce Transactions Dataset

1. Regional Distribution:



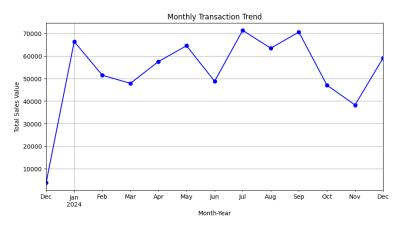
- Customers are unevenly distributed across regions.
- Targeted regional campaigns can help increase market share in underrepresented areas.

2. Popular Product Categories:



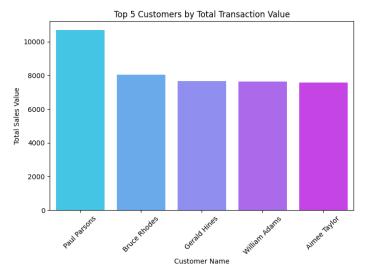
- The top 5 purchased product categories indicate strong consumer preferences.
- Increasing inventory and promotions for these categories can boost sales.

3. Monthly Sales Trends:



- Sales show seasonal fluctuations.
- Analyzing peak months can guide the timing of promotions and stock replenishment.

4. High-Value Customers:



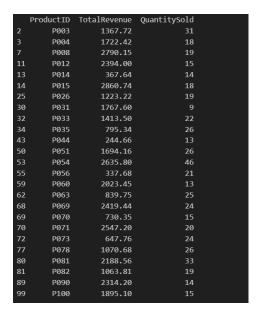
- The top 5 customers contribute significantly to revenue.
- Offering loyalty rewards to these customers can enhance retention and drive further purchases.

5. Average Transaction Value:

• The average sales value per transaction is ₹690, serving as a benchmark for evaluating future sales strategies and performance.

6. Product Performance Analysis:

Identify underperforming products (below the 25th percentile in sales)



- By recognizing underperforming products, we can adjust stock levels, avoid overstocking, and allocate resources to better-performing products.
- Investigate why products are underperforming (e.g., low customer demand, ineffective marketing). Take corrective actions like improving product features, running promotional campaigns, or making pricing adjustments.

7. Customer Retention Metrics

Retention Rate: 93.97%
Average Days Between Purchases: 55.38

Retention Rate: 93.97%

This indicates that 93.97% of customers continue to make purchases over a specific period, showing strong customer loyalty and satisfaction.

Average Days Between Purchases: 55.38

On average, customers are returning to make a new purchase every 55.38 days, which suggests a steady level of customer engagement and suggests that customers are relatively active and satisfied with their previous purchase.