# **Common Business Insights from EDA in eCommerce**

Exploratory Data Analysis (EDA) in eCommerce can yield valuable insights that help businesses make informed decisions. Here are some common business insights derived from EDA:

## 1. Customer Segmentation

- **Insight**: Customers can be segmented based on purchasing behavior, such as frequency of purchases, average transaction value, and product preferences.
- **Action**: Tailor marketing strategies and promotions to target specific customer segments effectively.

#### 2. Sales Trends Over Time

- **Insight**: Analyzing sales data over time can reveal seasonal trends, peak shopping periods, and the impact of marketing campaigns.
- **Action**: Optimize inventory management and marketing efforts to align with peak sales periods, ensuring adequate stock levels.

### 3. Product Performance Analysis

- **Insight**: Identifying top-selling and underperforming products helps understand customer preferences and market demand.
- **Action**: Focus on promoting high-demand products while considering discontinuing or reevaluating low-performing items.

### 4. Customer Lifetime Value (CLV)

- **Insight**: EDA can help estimate the CLV of different customer segments, indicating the long-term value of acquiring and retaining customers.
- **Action**: Invest in customer retention strategies for high-CLV segments to maximize profitability.

#### 5. Cart Abandonment Rates

- **Insight**: Analyzing transaction data can highlight cart abandonment rates and the reasons behind them, such as high shipping costs or complicated checkout processes.
- **Action**: Implement strategies to reduce cart abandonment, such as offering free shipping or simplifying the checkout process.