## **EDA Report - Credit Card Customer Dataset**

Credit Card Customer Dataset - EDA Report
1. Introduction
Exploratory Data Analysis (EDA) on credit card customer dataset to extract trends, relationships,
and anomalies.
2. Data Overview
- Dataset consists of financial behavior variables.
- Missing values were dropped.
3. Histograms
Observation:
- Right-skewed distributions.
- Majority customers have low balances and purchases; few extreme users exist.
4. Boxplots
Observation:
- Significant outliers present in BALANCE, PURCHASES, CASH_ADVANCE, CREDIT_LIMIT.
- High variance across several features.
5. Scatterplots
5.1 BALANCE vs CREDIT_LIMIT
- Positive linear relationship observed.

- Many customers maintain low balances even with high limits.

## 5.2 PURCHASES vs PAYMENTS

- Positive correlation.
- Some outlier customers have very high payments.

## 6. Identified Relationships and Trends

- Strong positive relation between BALANCE and CREDIT\_LIMIT.
- Strong positive relation between PURCHASES and PAYMENTS.
- Right-skewness dominant across features.

## 7. Conclusion

- Significant outliers need to be handled.
- Data normalization or transformation is recommended.
- Financial behavior segmentation is a strong future application.