

■ Bank Data Analysis Project

A Data Cleaning and Visualization Report

■ Introduction

- Objective: Analyze customer banking data.
- Dataset: Includes age, income, credit score, debt, and other attributes.

■ Data Cleaning

- Removed missing or inconsistent values.
- Converted data types where needed.
- Standardized column names.

■ Exploratory Analysis

- Scatter charts to explore relationships.
- Histograms to view data distributions.
- Count plots to measure key categories.

■ Scatter Chart Example

- X-axis: Age
- Y-axis: Yearly Income
- Legend: Gender
- Size: Credit Score
- Tooltip: Debt and Address

■ Histogram Example

- Distribution of Credit Scores.
- Helps detect skewness and outliers.

■ Power BI Dashboard

- KPIs: Total debt, income distribution, credit score analysis.
- Visuals combined for better insights.
- Interactive filtering applied.

■ Key Insights

- Younger customers often have lower credit scores.
- Higher income correlates with lower debt ratios.
- Certain age groups are more at risk of default.

■ Conclusion

- Cleaned and prepared the dataset.
- Built visualizations for analysis.
- Created an interactive dashboard for decision-making.