**Personal Finance Expense Forecasting**

***Project Description***

This project aims to provide insights into personal spending behavior by analyzing transaction data. Using Python and various data analysis techniques, this tool helps users predict their future expenses and visualize spending trends. The project includes:

- Data preprocessing and cleaning

- Spending insights and visualizations (e.g., pie charts, bar plots)

- Predictive analysis of future expenses using historical data

**Key Features**

- Data Preprocessing: Cleaning transaction data to handle missing values and duplicates.

- Spending Insights: Visualizing spending patterns over time, including monthly spending trends.

- Expense Forecasting: Using historical data to forecast future expenses.

**Technologies Used**

- Python

- Pandas

- Matplotlib / Seaborn

- Google Colab

**Requirements:**

pandas==1.5.3

numpy==1.23.5

matplotlib==3.6.2

seaborn==0.11.2

scikit-learn==1.1.2

jupyter==1.0.0