Bank Statement Analyzer - Documentation

# Introduction

The Bank Statement Analyzer is a simple Streamlit application that processes CSV files containing financial data. The app provides a summary analysis of transactions and optionally uses GPT-3.5-turbo to generate recommendations and highlight anomalies in the data.

# Features

- Upload CSV files to analyze financial transactions.  
- Match columns with data like date, debit, credit, and balance.  
- Display summary charts for monthly earnings, expenses, and balance.  
- Generate recommendations based on GPT-3.5-turbo for spending and saving habits.

# Installation

To install the required dependencies, run the following command:  
  
```bash  
pip install streamlit pandas numpy plotly chardet  
```  
  
Alternatively, you can install all requirements via:  
  
```bash  
pip install -r requirements.txt  
```

# Usage

To run the application:  
  
```bash  
streamlit run app.py  
```  
  
Once the app is running:  
1. Upload your CSV file.  
2. Map the columns to the corresponding fields like date, debit, credit, etc.  
3. Specify a savings target if desired.  
4. Click "Process" to view a summary and charts of your financial data.

# Requirements

- streamlit  
- pandas  
- numpy  
- plotly  
- chardet  
- openai

# Contributing

Feel free to fork this repository, submit issues, or open pull requests to improve the project.

# License

This project is licensed under the MIT License. See the `LICENSE` file for more details.