

Personal Finance Chatbot

Description

The Personal Finance Chatbot is an AI-powered application designed to assist users in managing their personal finances. It allows users to ask questions about savings, taxes, and investments, and also provides budget summaries and insights based on uploaded expense data.

Overview

This chatbot leverages HuggingFace Granite models for natural language understanding and Streamlit for interactive user experience. Users can chat with the assistant, upload their monthly expenses, and receive visual and statistical summaries to better manage their budgets.

Technology Stack

1. Streamlit - for UI development 2. HuggingFace Granite Model - for natural language inference 3. Plotly Express - for data visualization 4. Pandas - for data manipulation 5. Requests - for API integration

Robustness

The chatbot provides tailored responses depending on whether the user identifies as a student or a professional. It ensures resilience by handling exceptions gracefully and providing fallback responses. The integration of data visualization helps users quickly interpret their spending habits.

Conclusion

The Personal Finance Chatbot demonstrates how AI and data visualization tools can work together to provide practical financial guidance. With real-time responses and personalized insights, it empowers users to make informed financial decisions.