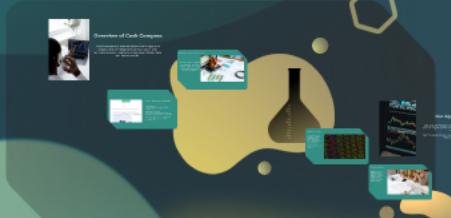


Cash Compass: Personal Finance Navigator

Integrating Market Insights and Inflation Data





cash compass

INSIGHT TO OVERSIGHT

Introduction to Cash Compass

Cash Compass is a personal finance navigator that integrates market insights and inflation data. It aims to revolutionize personal financial management by providing accurate predictions based on real-time data.



Prepared by: Josue / Mario

The project team, composed of Josue and Mario, are committed to developing Cash Compass to revolutionize personal finance management.



Overview of Cash Compass

Cash Compass is a web-based personal budget and expense tracker designed to provide users with accurate financial insights by integrating inflation data and market trends.



The Need for Cash Compass

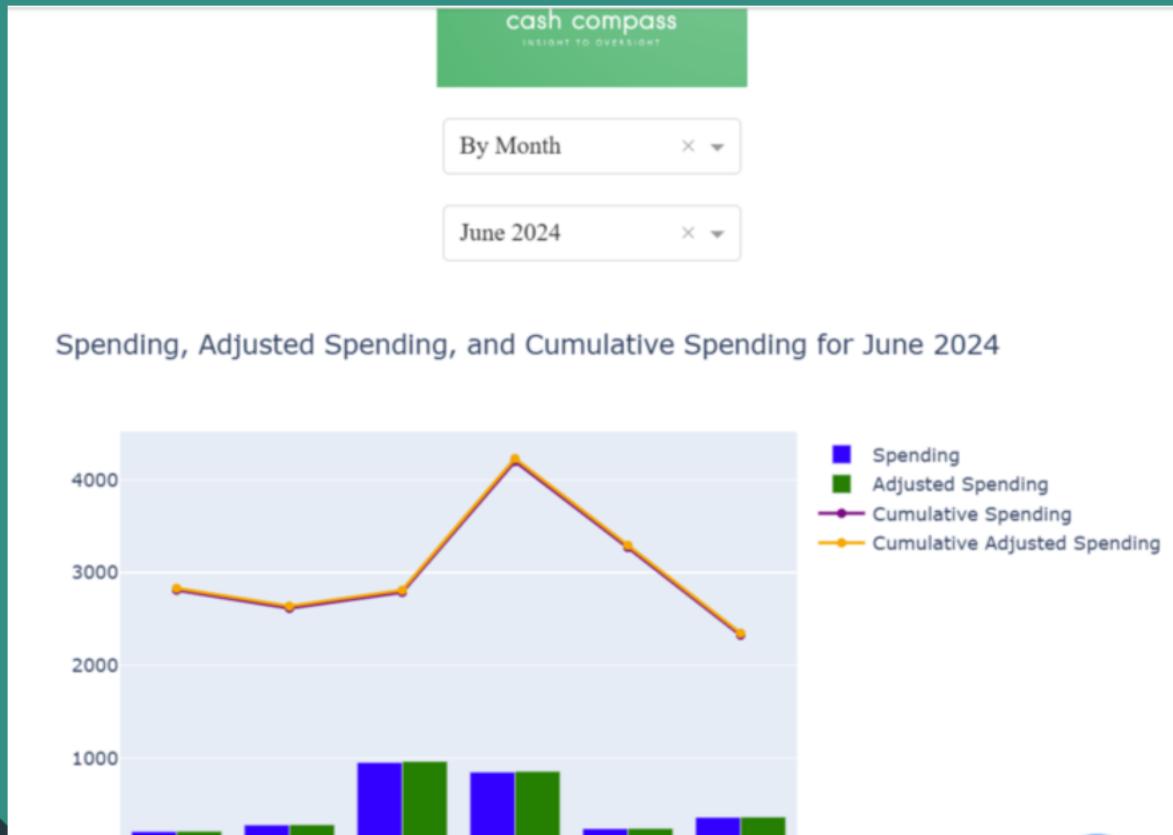
Cash Compass addresses the challenge of understanding inflation and market fluctuations in personal finances.

How Cash Compass Fits into Fintech

Data-Driven Financial Management

The app leverages real-time data from FRED API to adjust spending insights based on changes in the Consumer Price Index (CPI).





How Cash Compass Fits into Fintech

- **Predictive Analytics**
Integrates machine learning to forecast future expenses, providing users with data-driven financial predictions.
- **Personal Finance Optimization**
Allows users to visualize and analyze their spending, enabling better financial planning and decision-making
- **Empowers users to make informed financial decisions**
by providing insights into their spending habits and predicting future trends.

Functionalities of Cash Compass

Cash Compass offers a real-time dashboard for visualizing and managing expenses, inflation-adjusted reports to reflect accurate living costs, and predictive analytics for informed financial planning.



By Category x ▾

Entertainment x ▾

Spending, Adjusted Spending, and Cumulative Spending for Entertainment

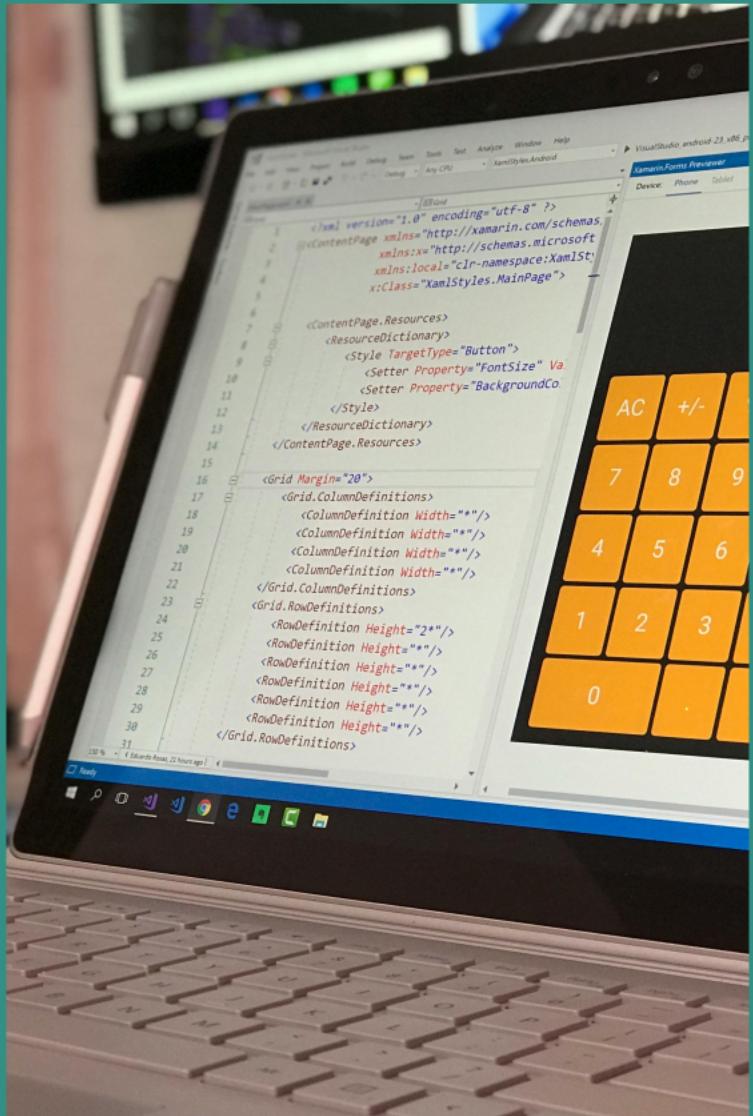




Our Approach

Data Collection: We used FRED API to fetch real-time inflation rates and integrating these with market data from other financial APIs.

Data Processing: Cleaned, merged, and prepared the data using Python and Pandas.



Analytics and Modeling for Financial Predictions

Employing statistical and machine learning models, Cash Compass predicts future financial scenarios based on historical and current data trends.

Cash Compass APP

The front-end of Cash Compass is developed using Dash for interactive web interfaces while the back-end is powered by Python for seamless integration and functionality.



Spending, Adjusted Spending, and Cumulative Spending for Health by Category

The integration of the FRED API in Cash Compass allows users to access real-time inflation rates, providing accurate and up-to-date financial insights for effective decision-making.



Spending, Adjusted Spending, and Cumulative Spending for Health by Month



Future Developments in Financial Technology

The future of Cash Compass includes advancing predictive analytics, enhancing data visualization, and integrating more comprehensive financial planning tools for our users.



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