Financial AI Research Agent - Project Overview

This project demonstrates the creation of an AI-powered Research Agent capable of handling complex financial analysis tasks. It integrates APIs, web search, and advanced LLM capabilities to produce structured, data-driven reports.

Key Features

- Automated search & fact-checking from multiple reliable sources
- Journalistic-style financial analysis with structured reporting
- Trend identification and forecasting
- Generates professional research reports in PDF format
- Customizable for stock analysis, evaluation, and deep research tasks

Tech Stack

- Python (Google Colab)
- Groq API (LLM)
- Letta API (Agent Framework)
- DuckDuckGo Search API
- Newspaper4k for article extraction
- ReportLab for PDF generation

Impact

The AI agent simplifies complex financial and technological topics, making them accessible to students, researchers, and professionals. It demonstrates how modern AI tools can be orchestrated to provide structured insights in finance and beyond.

This project is part of my initiative to explore practical applications of AI in financial services and demonstrate its potential in research, automation, and decision support.