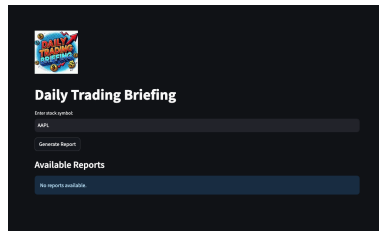


Daily Trading Briefing

A Walkthrough for Hackathon Submission



Author: Simon Aumayer

Date: 2024-09-16

Introduction

The Daily Trading Briefing tool facilitates and automates stock research with the help of agent frameworks (Crew AI). Instead of manually doing web research, different reports and news should be collected, evaluated, and aggregated by AI agent teams. This includes a simple display of the chart and Crew AI based research for the stock, including a recommendation based on pros and cons. This is a prototype, and in future versions, more data can be included (like fundamental numbers of the company) and probably automated technical chart analysis for proper timing of a possible trade. The project can help to make data-driven decisions for the stock market.

Overview of the Tool

Project Description:

The Daily Trading Briefing tool allows users to enter a stock symbol and generate detailed reports. The tool uses Streamlit for the interface and Crew AI for aggregating and analyzing stock information. Key technologies include Streamlit, CrewAI, and Composio.



Daily Trading Briefing

Enter stock symbol:

TSLA

Generate Report

Creating report...

Report generated: TSLA_daily_report_20240916_013650.md

Available Reports

Select a report to view or delete

TSLA_daily_report_20240916_013650.md


Delete Selected Report



Walkthrough of the Application

Step 1: Enter Stock Symbol

Users can enter a stock symbol in the input field and click on 'Generate Report' to create a new report.



Daily Trading Briefing

Enter stock symbol:

Generate Report

Available Reports

No reports available.

Step 2: Viewing Available Reports

The generated reports are displayed in the 'Available Reports' section, where users can view or delete them.



Candlestick Chart

AAPL Daily Briefing Report

Recommendation

Based on the detailed financial analysis provided by the Investment Researcher and considering the potential risks and challenges associated with investing in AAPL, here is the investment recommendation for AAPL:

Pros: 1. **Strong Financial Performance:** AAPL continues to exhibit strong financial performance, with key metrics such as revenue growth, profitability margins, cash flow generation, and balance sheet strength supporting its position as a solid investment choice. 2. **Innovation and Market Leadership:** Apple's consistent innovation and market leadership within the technology sector highlight its potential for long-term growth and success. 3. **Robust Ecosystem and Growth Opportunities:** The company's robust ecosystem, strong market share, and promising growth opportunities in emerging markets and services enhance its investment appeal.

Cons: 1. **Market Volatility:** AAPL is subject to market volatility, which could lead to fluctuations in the stock price and pose risks for investors. 2. **Competition and Innovation:** Operating in a highly competitive industry, AAPL faces risks associated with competition, consumer preferences, technological advancements, and market changes. 3. **Regulatory Risks:** As a multinational corporation, AAPL is exposed to regulatory risks related to trade, taxes, data privacy, and intellectual property rights, which could impact its operations and financial performance.

Step 3: Generated Report

Each report includes a candlestick chart, volume analysis, and a recommendation based on the AI's evaluation.



Candlestick Chart

TESLA Daily Briefing Report

Recommendation

Based on the analysis of Tesla's financial health, strong market positioning, and continued innovation, I recommend investing in TESLA.

Pros: 1. Tesla exhibits strong financial indicators across profitability, liquidity, and solvency metrics. 2. The company has shown impressive revenue growth, net income improvement, and efficient cost management. 3. CEO Elon Musk's innovative leadership and positive investor sentiment contribute to Tesla's promising future growth. 4. Tesla's strong brand reputation and focus on sustainability differentiate it from competitors in the electric vehicle market. 5. The company's expansion into key markets like the United States, Europe, and China provides opportunities for continued growth.

Cons: 1. Tesla faces increasing competition from traditional automakers and electric vehicle startups in the industry. 2. The electric vehicle market is highly competitive, with new entrants posing a threat to Tesla's market share. 3. The success of Tesla's future growth relies heavily on its ability to maintain its innovative edge and sustain its brand reputation amidst growing competition.

Behind the Scenes

The tool uses Crew AI agents for collecting, evaluating, and aggregating stock-related data from various sources. The AI framework processes this information to generate reports that include market analysis, trends, and recommendations.

Conclusion

The Daily Trading Briefing tool is a prototype that demonstrates the potential of AI-driven decision-making in stock trading. Future developments could include more advanced data analysis and integration with additional financial metrics.

Contact Information

For more information or to access the code, please contact the project team.