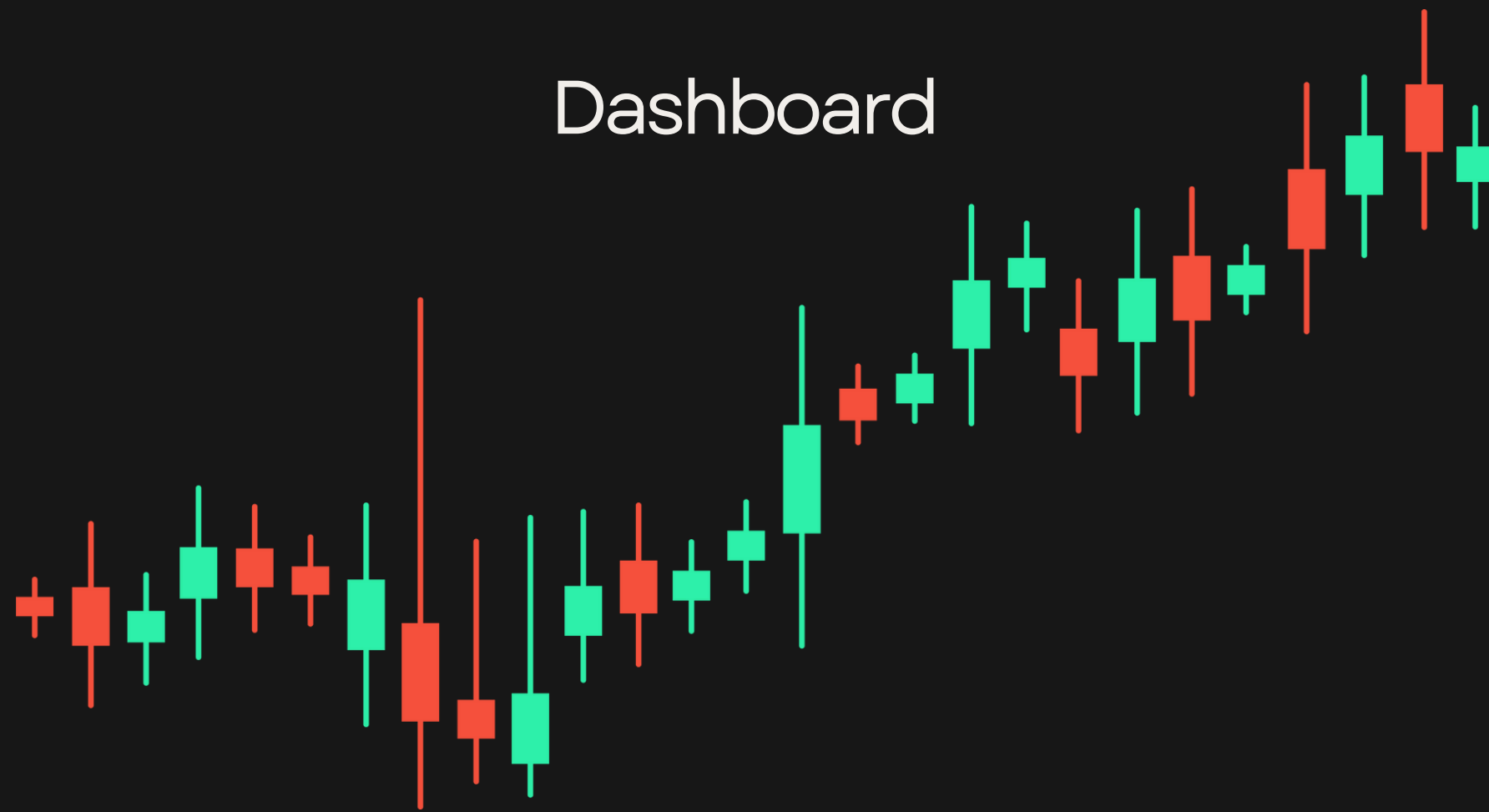


An 'Intelligent'

Stock Market

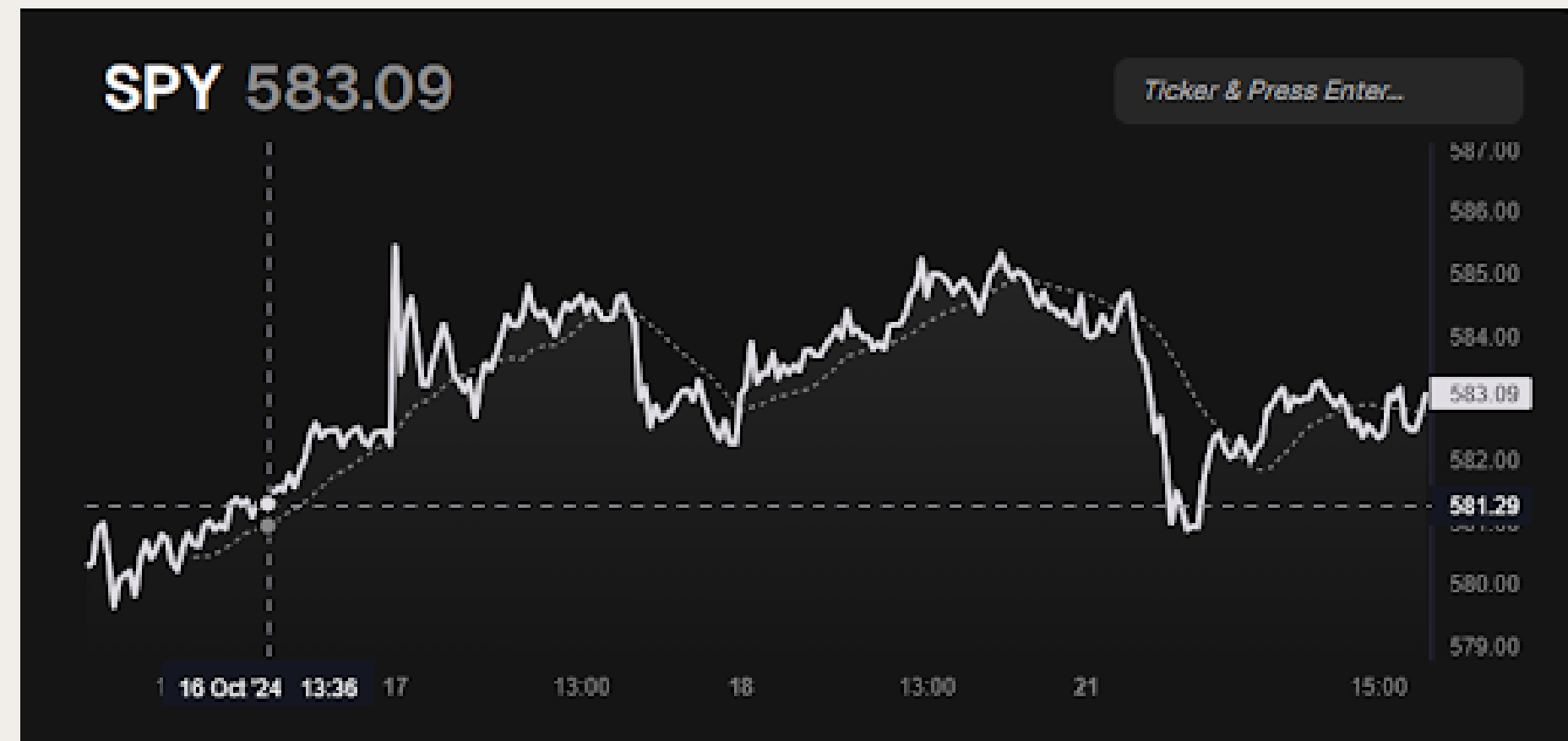
Dashboard



Team 7

By Jasmine, Rohit, Emelyn (Yumeng), Shayan

What is The Objective



One economic message from the Costco gold bar craze

Gold prices continue to hit fresh records. Here's one possible message from the safe-haven move.

Yahoo Finance • 4 hours ago [COST -0.31%](#) [GLD -0.02%](#)



Dow slides, Nvidia and Apple jump to records

Yahoo Finance • 6 hours ago



Goldman: The S&P 500's decade of big gains is over

Bloomberg • 15 hours ago [^GSPC -0.18%](#)



Musk's million-dollar promises and Harris's record haul heat up '24 race

Yahoo Finance • 8 hours ago [TSLA -0.84%](#)

Report: Trump's policies would jeopardize Social Security

Yahoo Finance • 6 hours ago

Nvidia surges to another record as Wall Street stays bullish

Yahoo Finance • 4 hours ago

[MU -1.86%](#) [TSM +0.58%](#)

CEO: Nike shoots for turnaround with 12-year NBA, WNBA deal

Yahoo Finance • 3 hours ago

[NKE -1.74%](#) [UA -2.78%](#)

Treasury 10-year yields may hit 5% within months: T. Rowe Price

Bloomberg • 18 hours ago

Fed officials call for 'gradual' and 'modest' rate cuts

Yahoo Finance • 5 hours ago

Here's why investors are expecting more upbeat results from GM

Yahoo Finance • 9 hours ago

[GM -0.51%](#) [F -1.98%](#)

Apple (AAPL) likely to
be hit with an
antitrust lawsuit this
week!

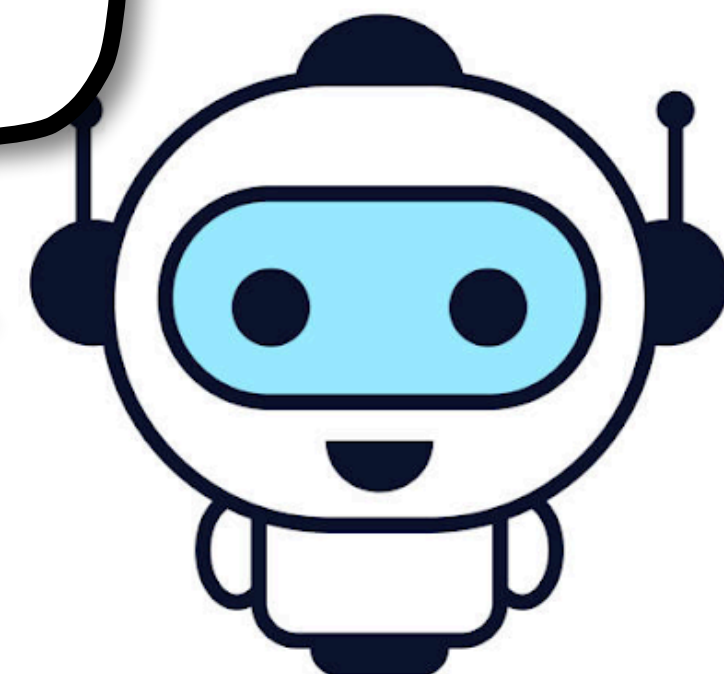
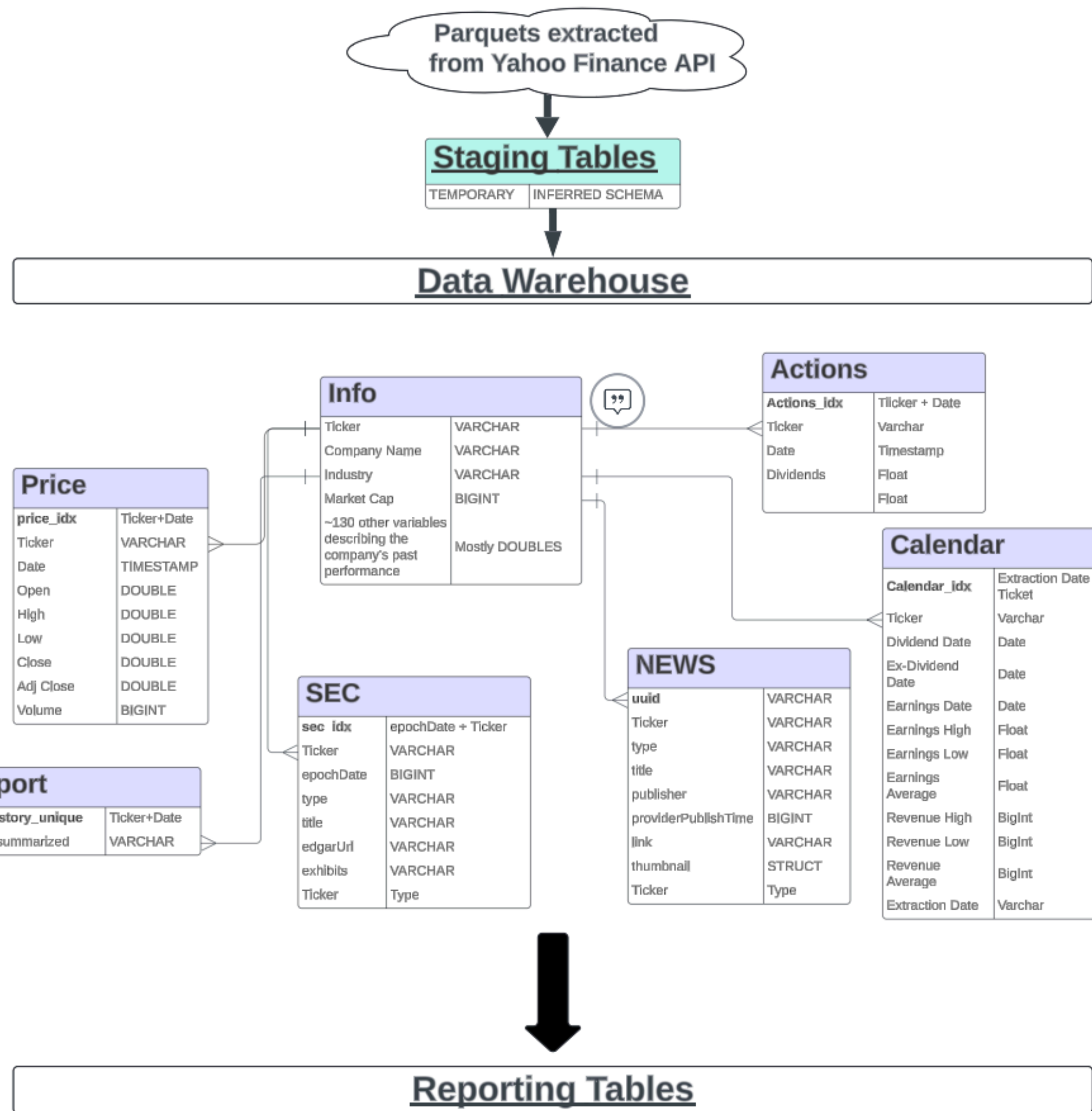


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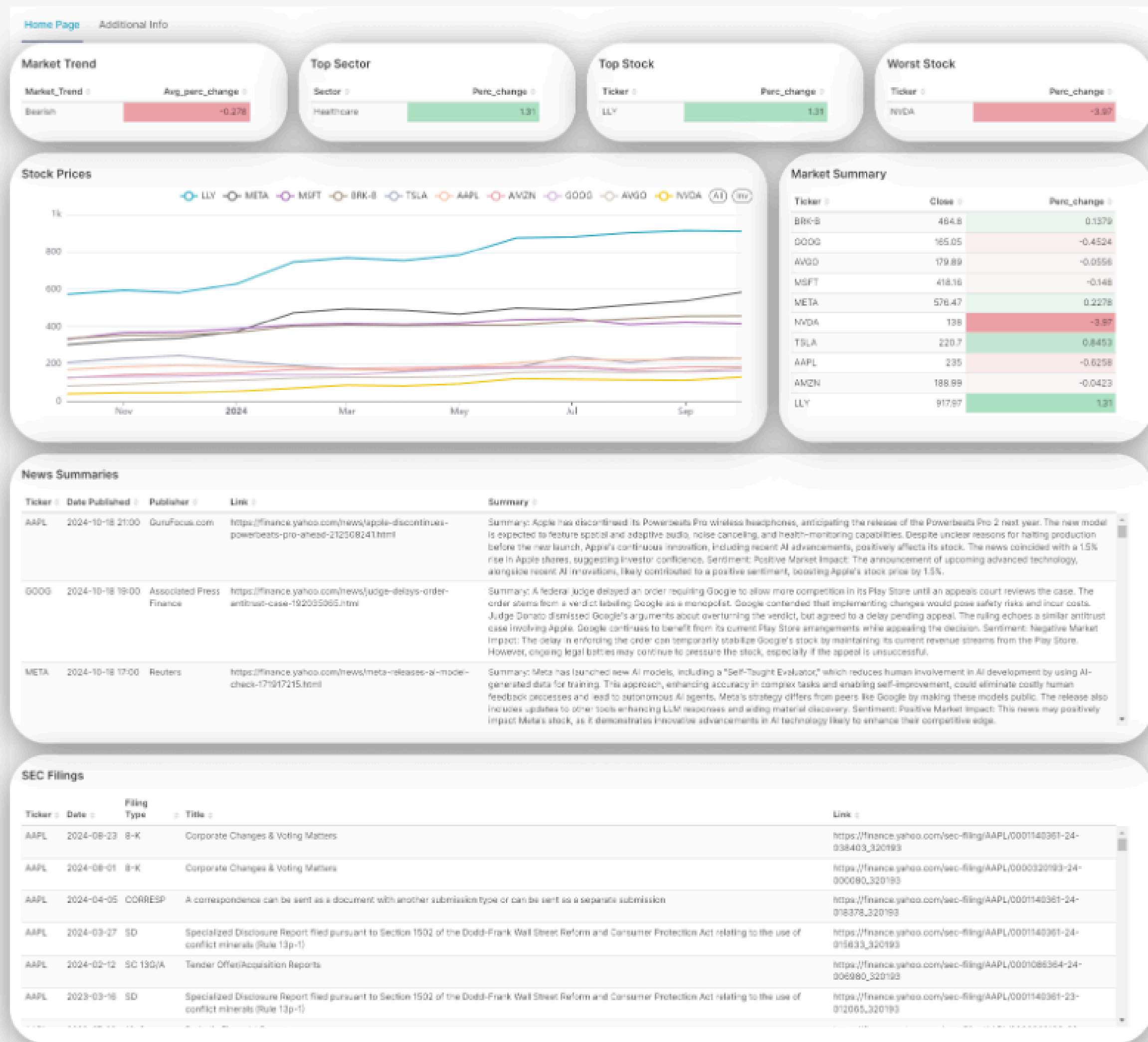
- Phase I Recap
- Phase II Recap - Sentiment Analysis
- New Pipelines
- Email
- Future Objectives





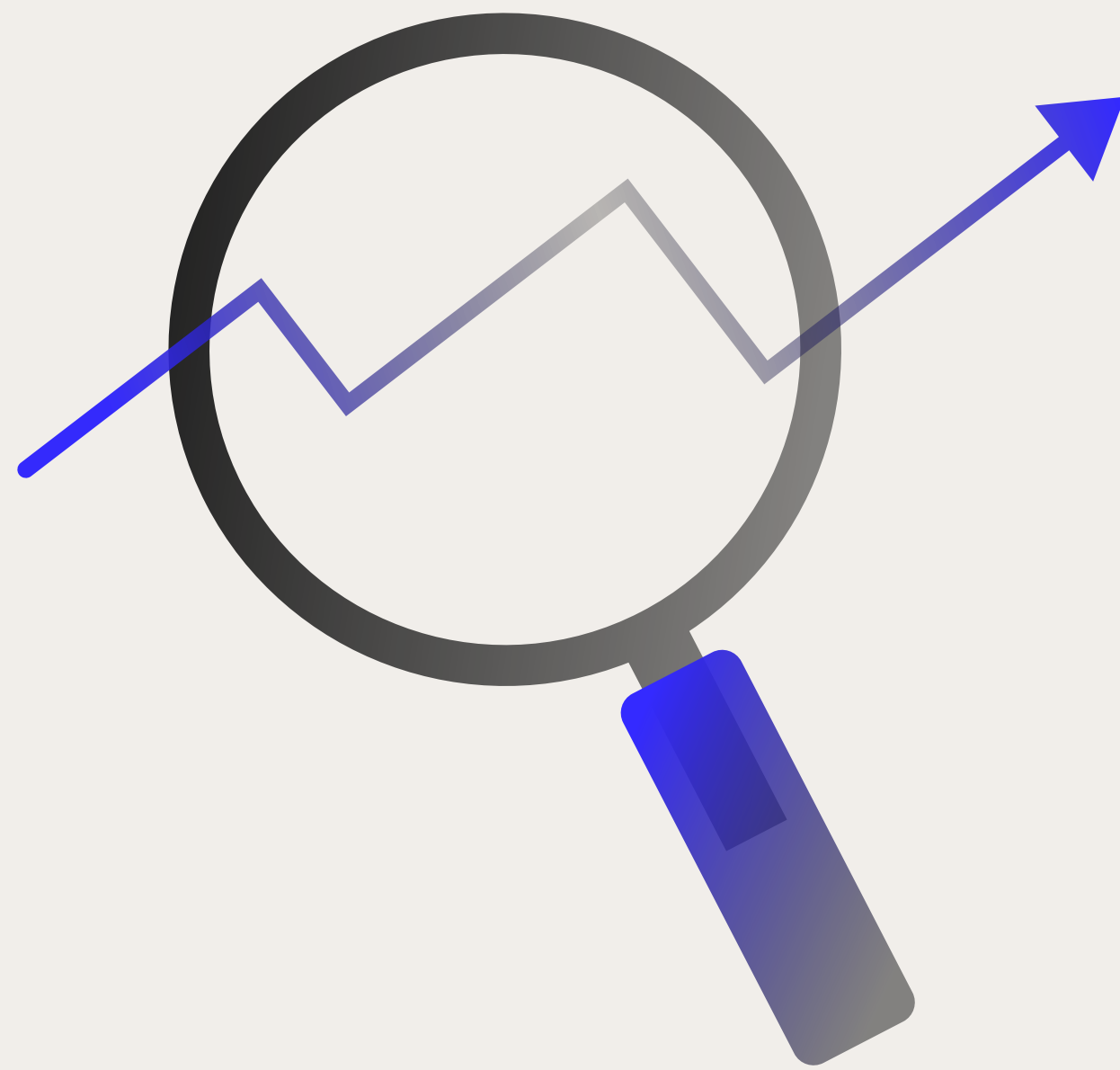
Phase 1 Recap

- Dashboard Tracking top 10 Stocks
- Automated Daily Pipeline using Yfinance API
- Reporting Via Superset





Analytics - Sentiment Analysis

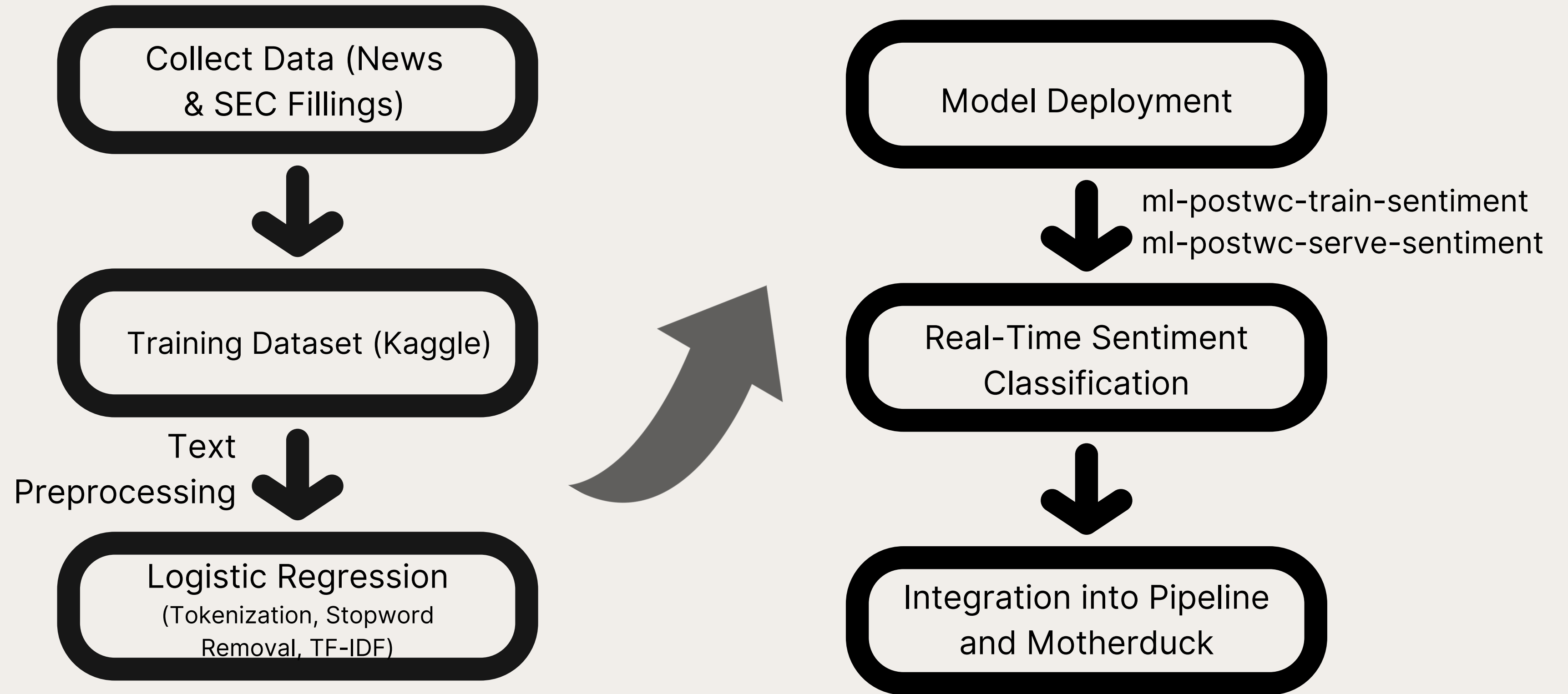


Model Training & Selection

Model Choice - Logistic Regression

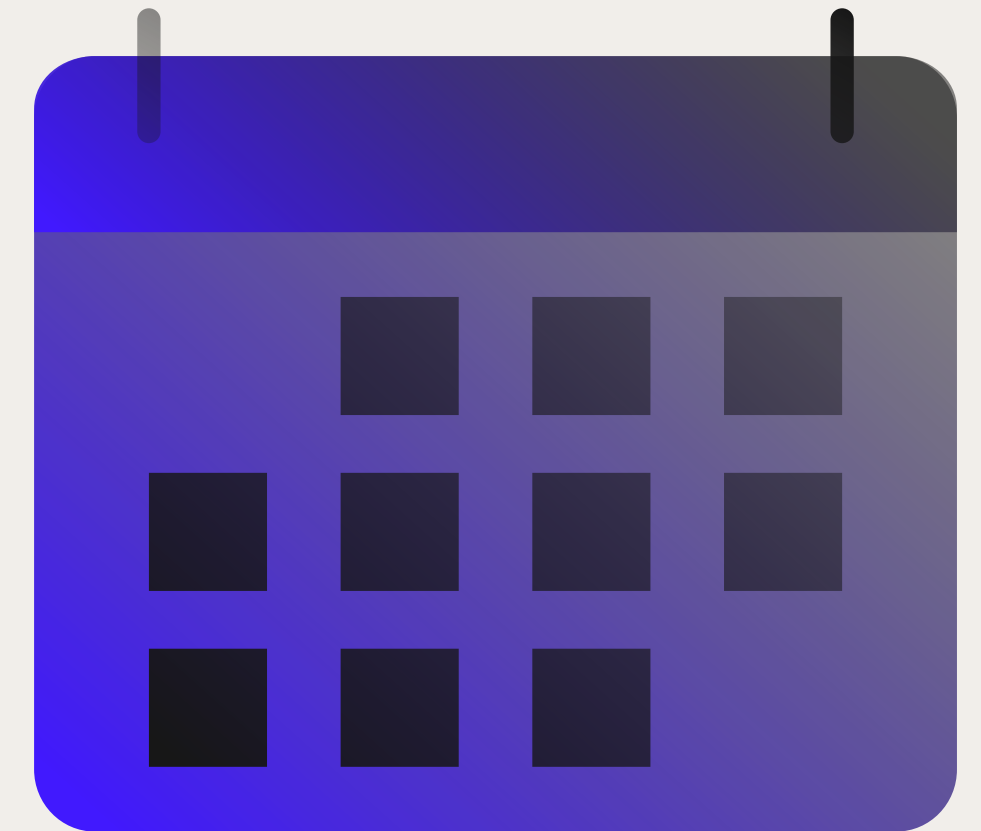
Feature Engineering - TfidfVectorizer

Data Split - 80:20 Accuracy = 0.7835



Live Demo

Sentiment Analysis Prediction



News articles

Sentiments

Positive - 

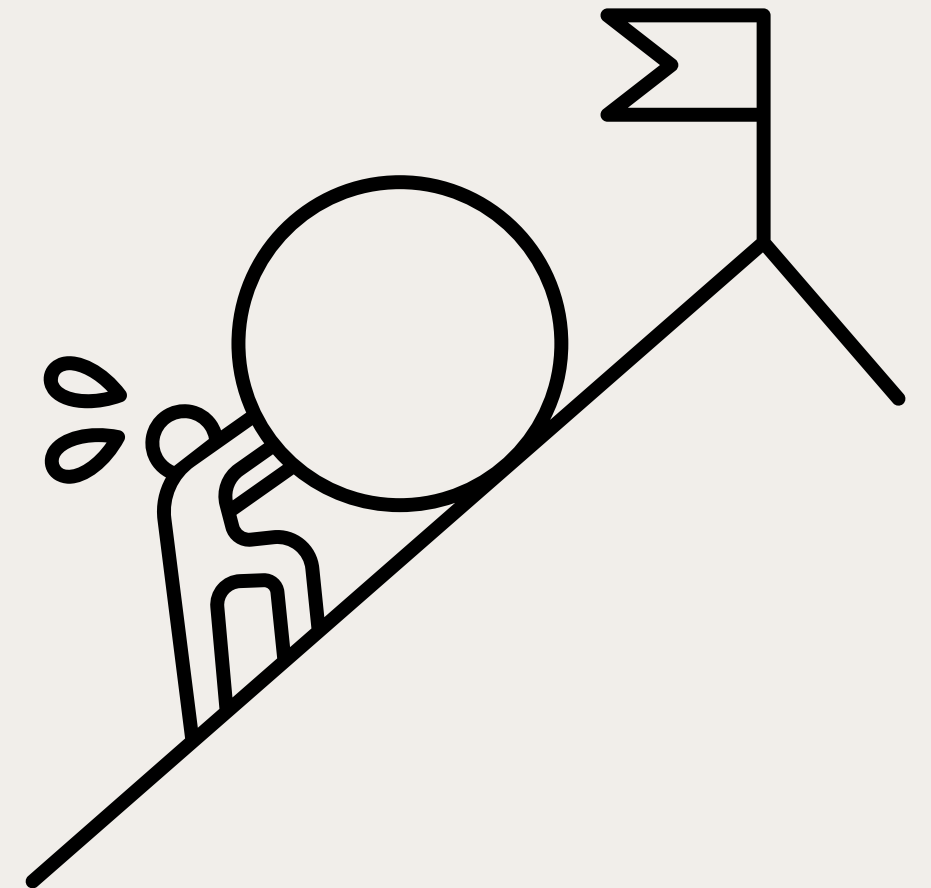
Neutral - 

Negative - 

"Meet the Unstoppable Stock That Could Join Apple, Nvidia, Microsoft, Alphabet, Amazon, Meta, and Taiwan Semiconductor Manufacturing in the \$1 Trillion Club by 2035",
"iPhone 16 Sales Surge 20% in China, Boosting Apple's AI-Driven Growth Outlook",
"Apple Discontinues Powerbeats Pro Ahead of Powerbeats Pro 2 Launch, Shares Rise 1.5%t

Challenges

- **Integrating custom ML models into our data pipeline**
 - errors related to data formatting, model configuration
- **Serverless ML integration**
 - trained and deployed our sentiment analysis on a sample dataset
 - require further refine our approach to integrate the trained model with the existing infrastructure (ex. Prefect and Streamlit)
- **Addition of new data to pipeline**
 - New stocks



Next Steps

Prefect Integration & Automation

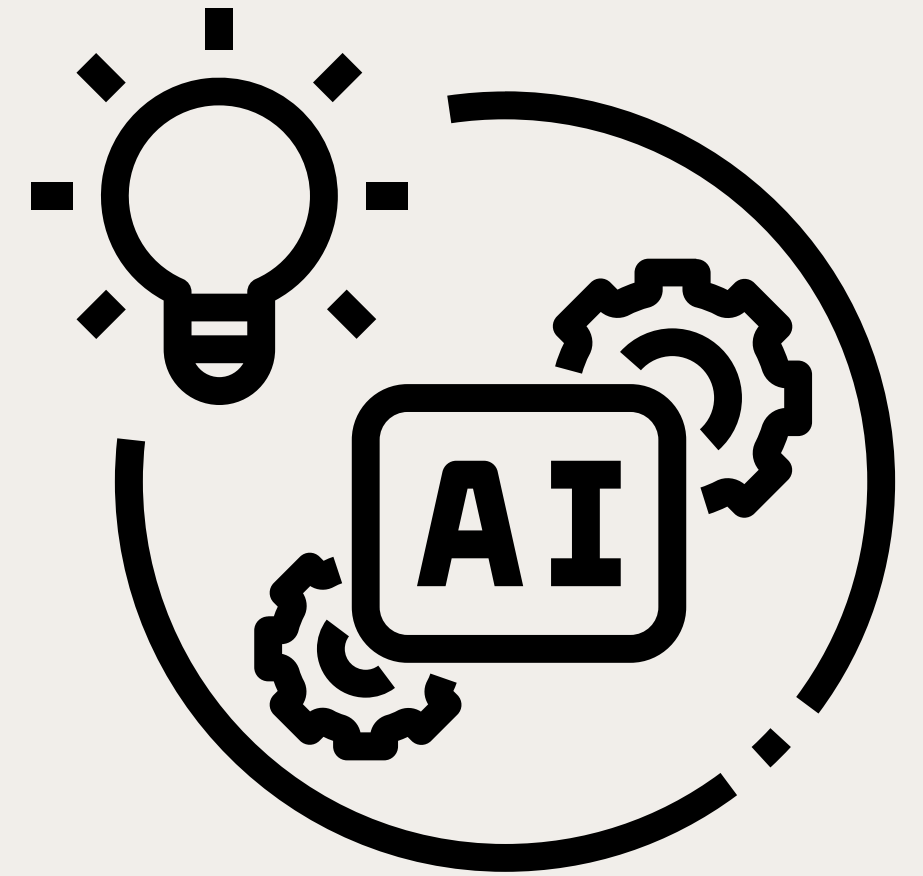
Incorporate sentiment analysis, enabling a fully automated pipeline includes ML predictions for daily market data updates

Advanced Summarization & Analysis

Refine the summarization of News articles and SEC Filings using LLMs

Reporting

Integrate Interactive Features in an interface through Streamlit(ex. Chatbot)



Thank You

