

CASHING ARRAYS



MUSH | DYLAN | EUGENE | EDWARD | ZHIYI



PROBLEM STATEMENT

- 1) In the fast-paced realm of financial markets, real-time risk assessment is paramount to safeguarding investments. However, current risk management tools often lack the narrative context required to comprehensively understand emerging risks and provide insights.

Design a PoC that transforms market data into informative narrative risk insights to equip financial professionals with actionable insights, empowering them to proactively manage risks.

AGENDA

1) Empathy

- Identifying pain points
- Establishing goals

3) Implementation

- Solution Architecture
- How this would help

2) Prototype

- Fullstack showcase
- Tech stack used

4) Future roadmap

- Future implementation
- Q&A





EMPATHY



MEET JANE

*NOT RELATED TO ANY STREETS

Role:

- 2nd year Risk Analyst at Citi
- In charge of market risk, credit risk and operational risk

Challenges:

- A lot of data to sieve through
- Sometimes data do not add meaningful substance to her knowledge



Professional goals:

- Be up-to-date on the latest commentary and news
- Sharpen her technical skills on risk analysis and modelling

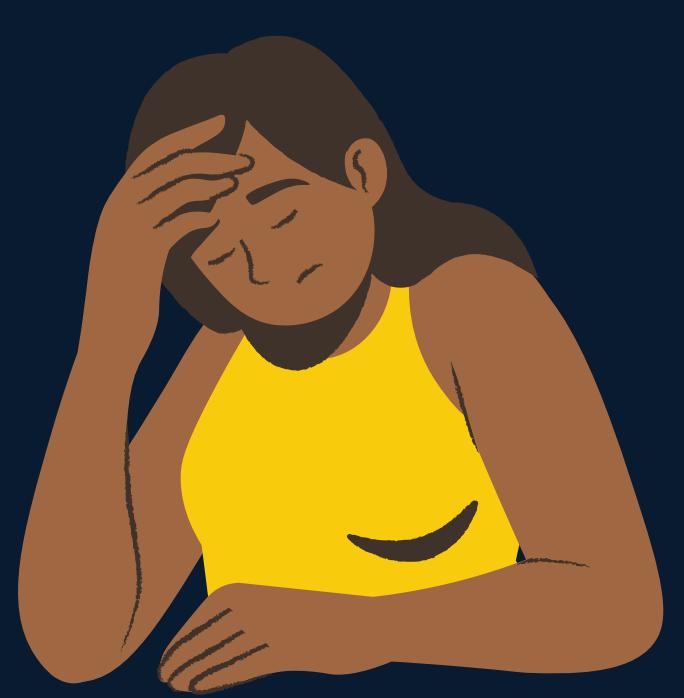
Wants:

- An efficient and reliable way to gain access to meaningful and trustworthy textual data

PAIN POINTS



Lengthy news articles and commentaries with many filler information



Tedious process to sieve through multiple sources for trustworthy information



Hard to translate news into valuable insights with little contextual information

PROTOTYPE



SHOWCASE

RETRIEVE



News APIs



Stocks API

GENERATE



GPT

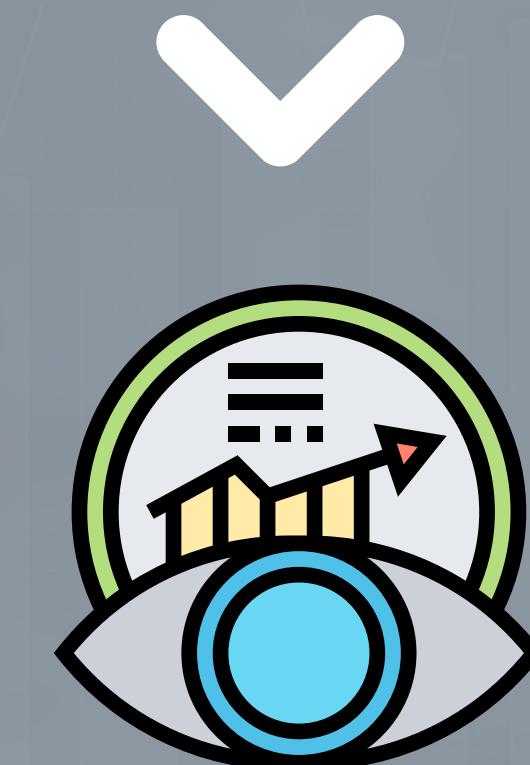


Insights

PREDICT



ML Model



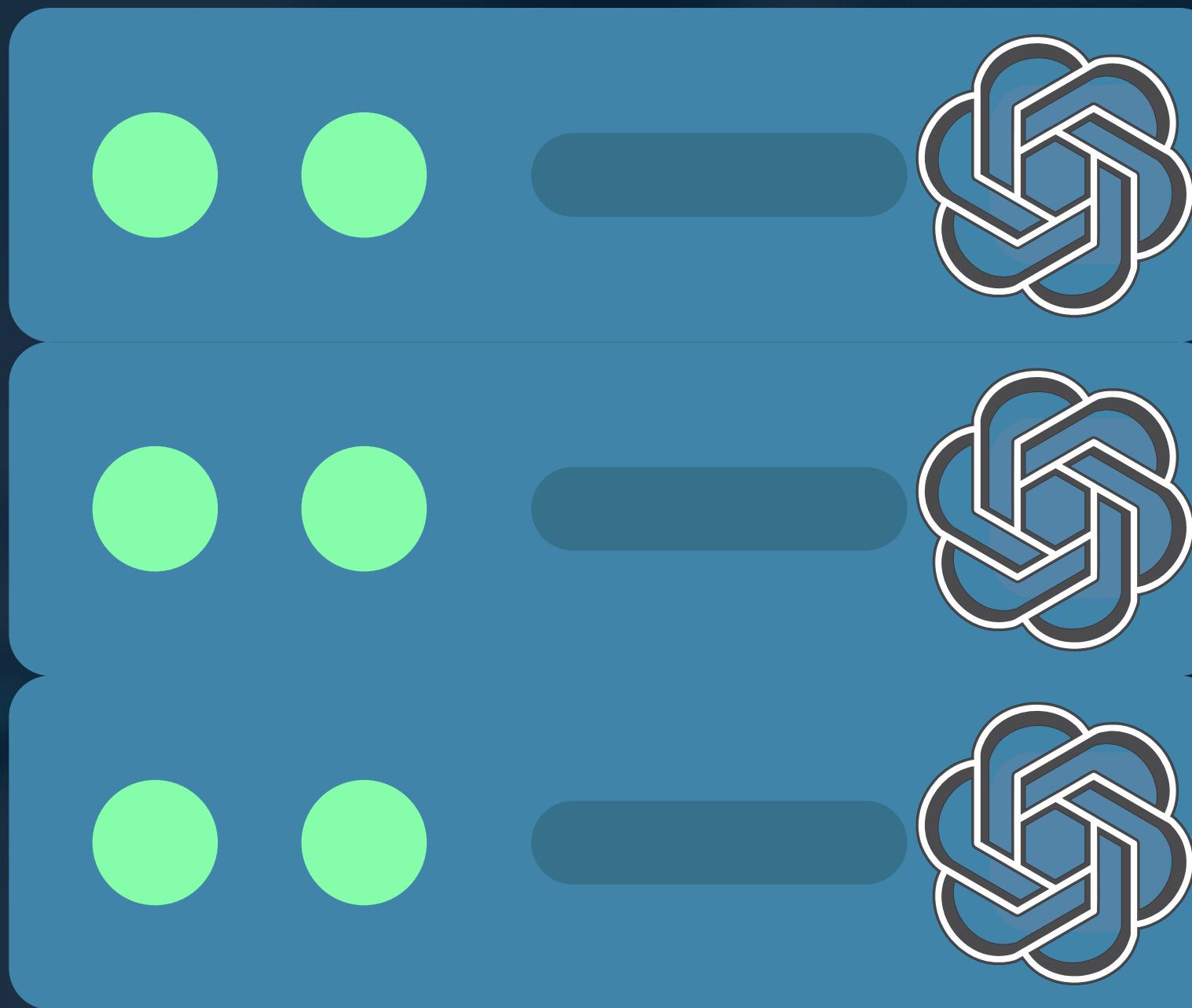
Stock trend



News Article



gpt-3.5-turbo



GPT Model

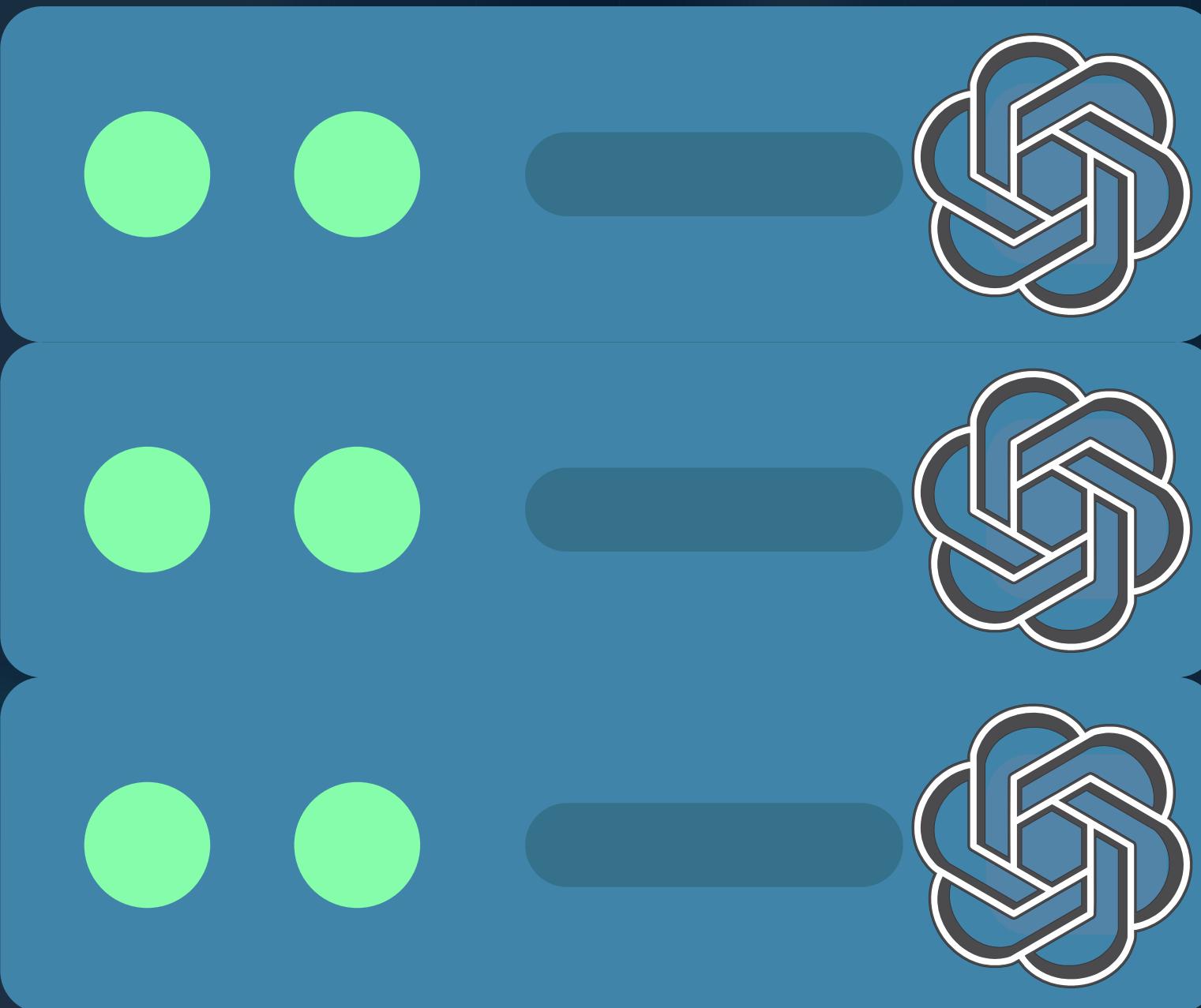


gpt-3.5-turbo

Insights

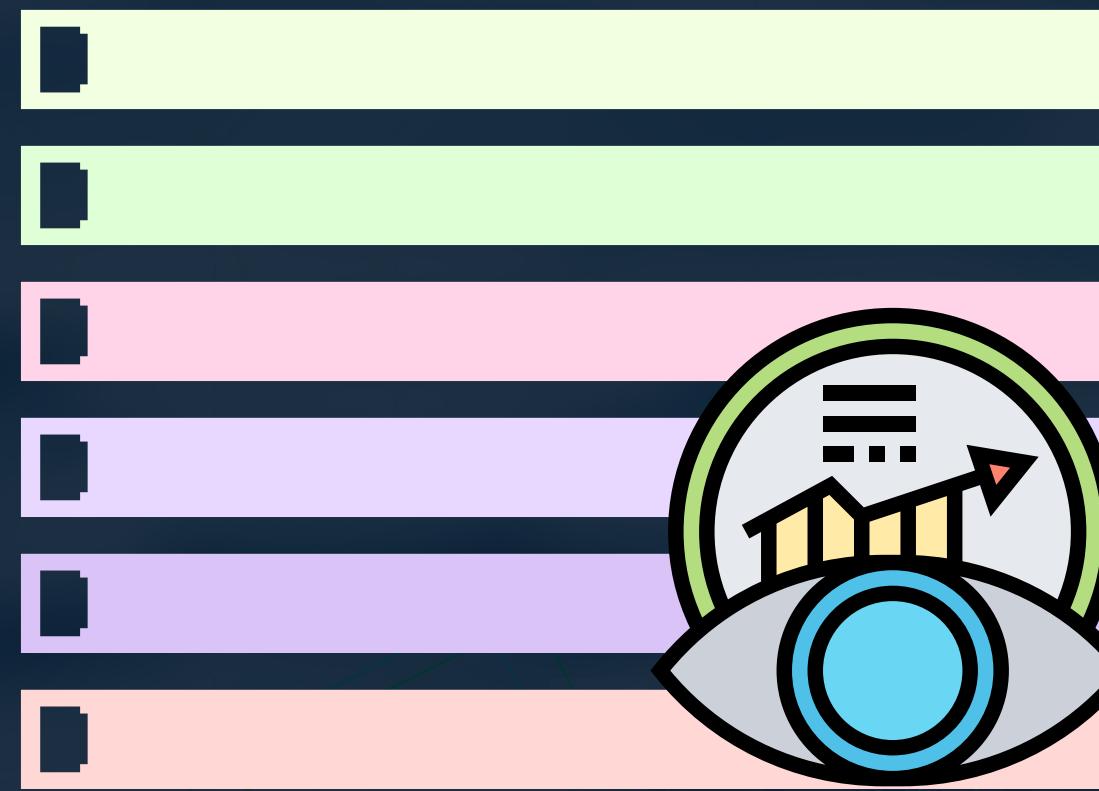
Keywords & Associated risks

GPT Model





ML Model



Keywords & Associated risks



Movement in stock price



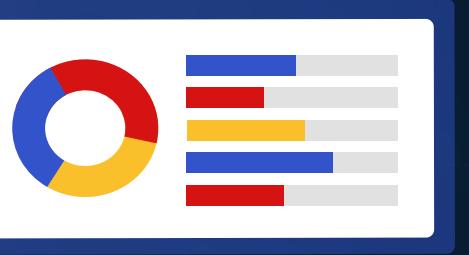
ML Model



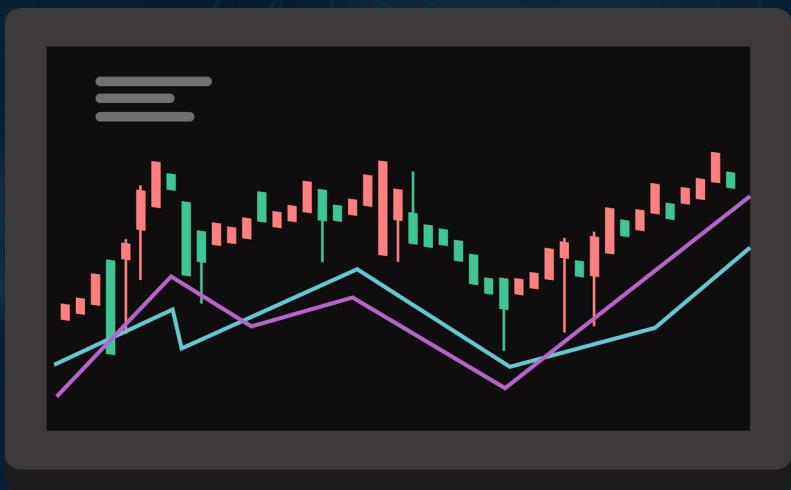
ML Model

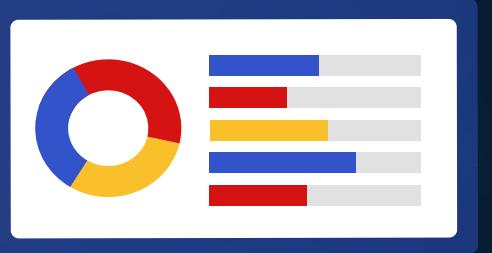


Stock Price prediction



Dashboard





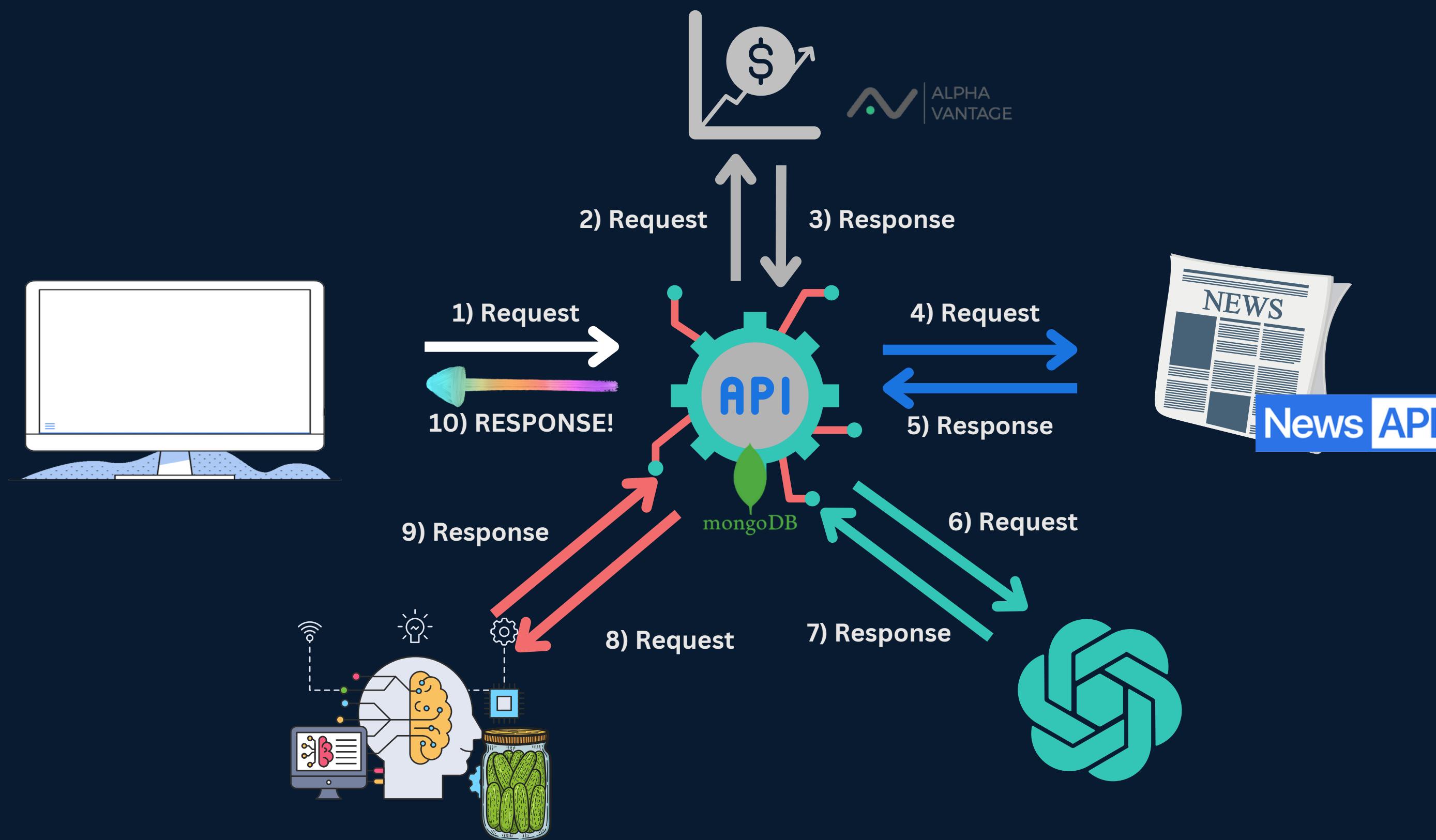
Dashboard



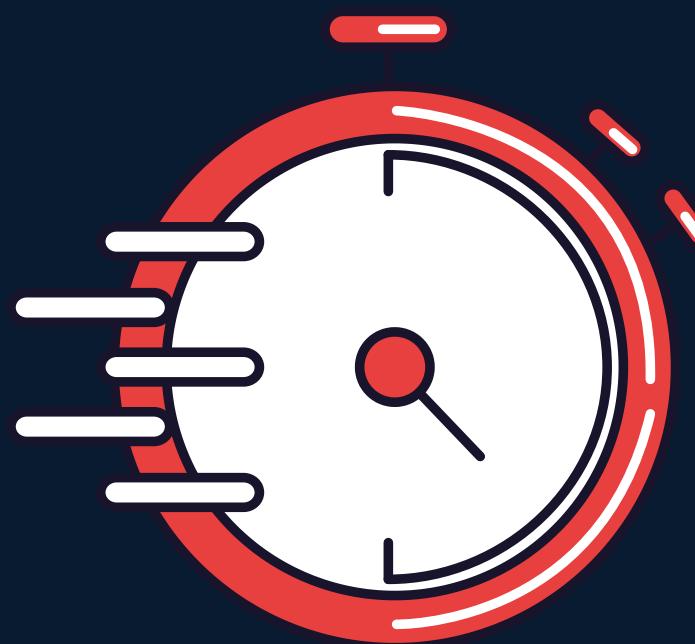
IMPLEMENTATION



SOLUTION ARCHITECTURE



HOW THIS HELPS



Improve
Efficiency



Provide
Context

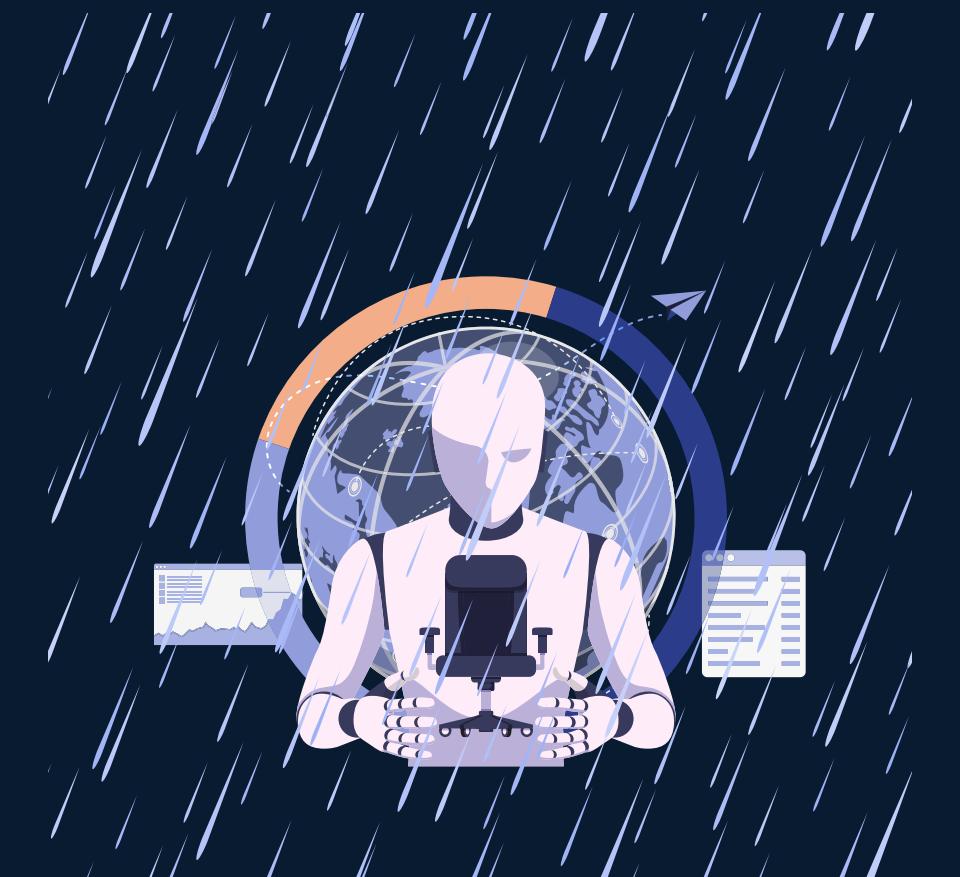


Actionable
Insights

LIMITATIONS



Using Free
News API



OpenAI API
Updated Till
2021 Data



ML Model
Trained
Limited Data

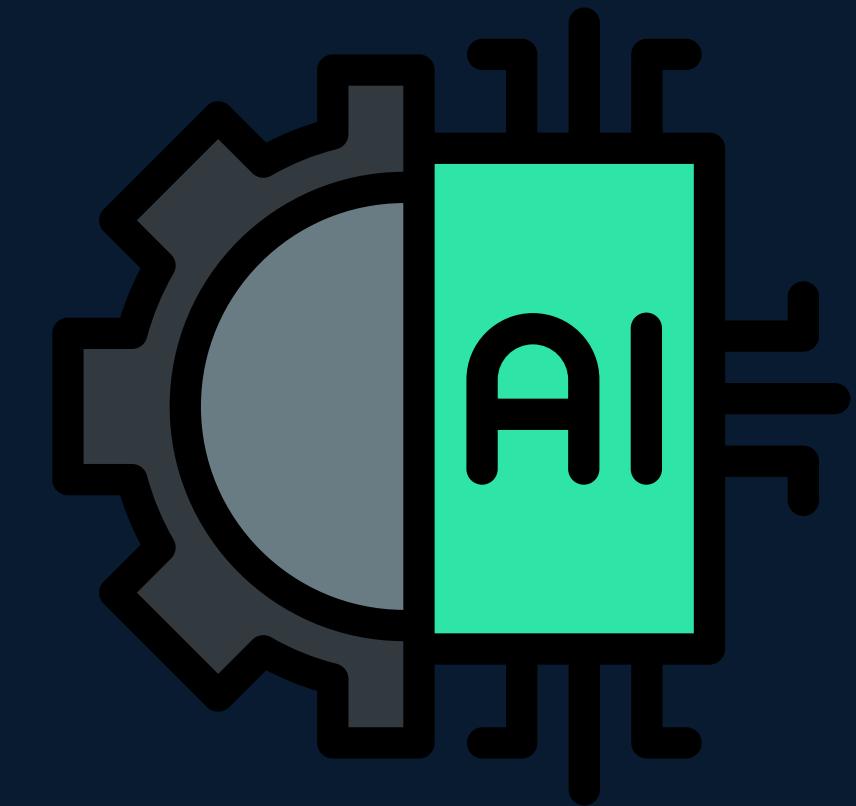
FUTURE ROADMAP



FUTURE



FUTURE ROADMAP



Create
Proprietary
News Service

Integration
of Other
Services

Enhancing
Prediction
Model



Q & A



THANK YOU

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