

Stock Right

Powered by AI
and ML

Stock market trends analysis and price prediction application by deploying machine learning techniques.

Problem Statement 2
Team Carpe Diem



Stock Market

Stock Market Prediction Application aims to determine the future movement of the stock value of a financial exchange. The accurate prediction of share price movement will lead to more profit investors can make.



Major Modules



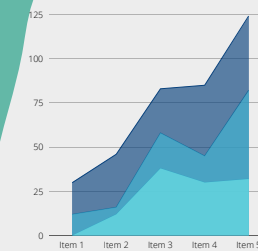
i. Price Prediction and Trajectory Representation

Predicts the price of a stock by considering the history of its price and displays the predicted trajectory.



ii. All Stocks Data In Real-Time

Display all stocks listed on BSE or any other exchange and their prices in real time.



iii. Graphical Representation

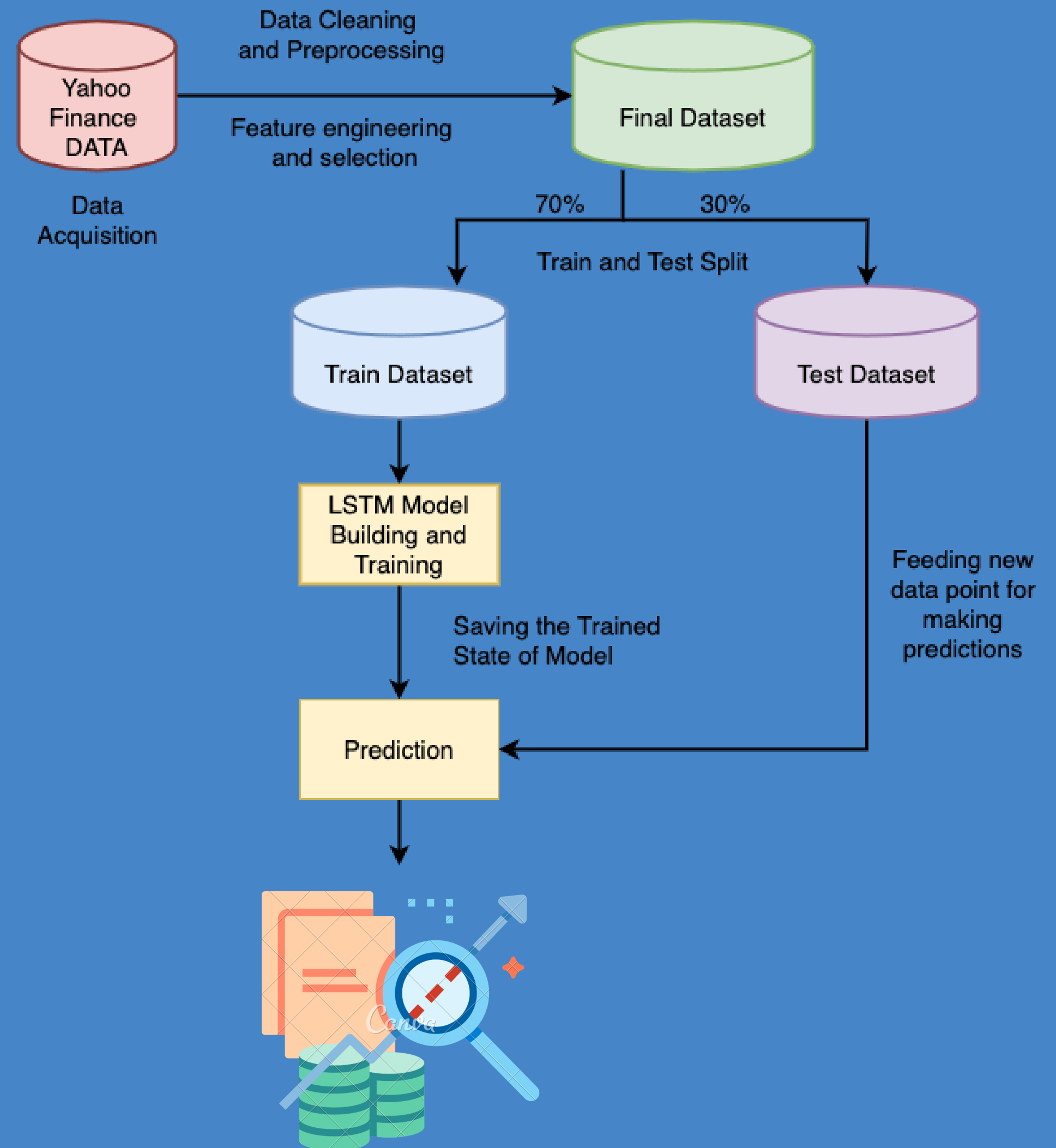
Display the history of the stock price in a interactive graphical format



iv. Upper-Lower Circuit Classification

Display whether the stock was in lower or upper circuit on daily basis.

Prediction Workflow



Graphical Representation

Display the history of the stock price in a interactive graphical format :

- Time Frame
- Stock Symbol
- Indicators
- Plot Type



Data of all Stocks

Display all stocks listed on BSE or any other exchange and their prices in real time.

Circuit Classification

Upper Circuit

Higher demand for shares than supply



Lower Circuit

Higher supply of shares than demand



The circuit filters are set by market regulator SEBI, and revised on the basis of market volatility or any unusual activity in certain counters.

Technologies Used

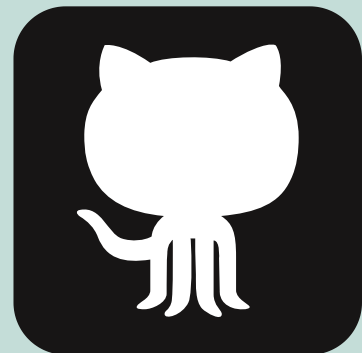
FRONT END



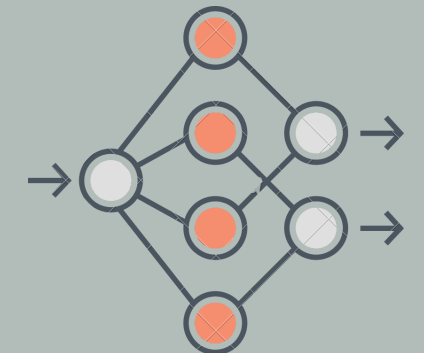
BACK END



VERSION CONTROL SYSTEM



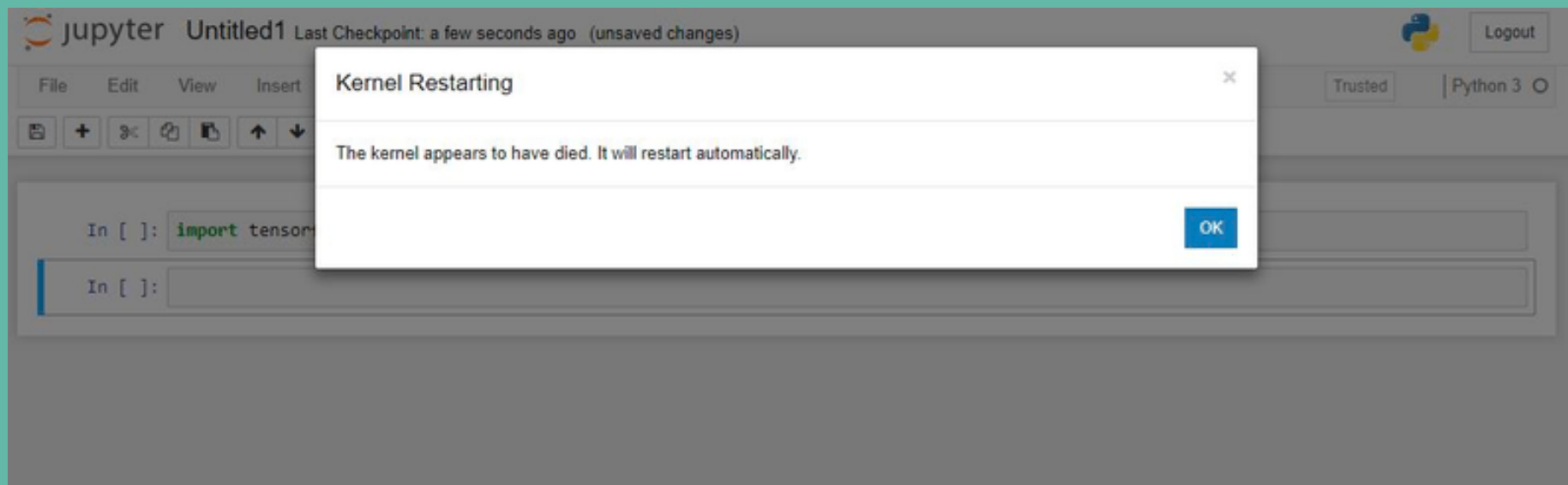
MACHINE LEARNING



Challenges Encountered

Setup Issues

- Kernel dies in Jupyter notebook when attempting to import
- Problems setting up Tensorflow on M1 Mac

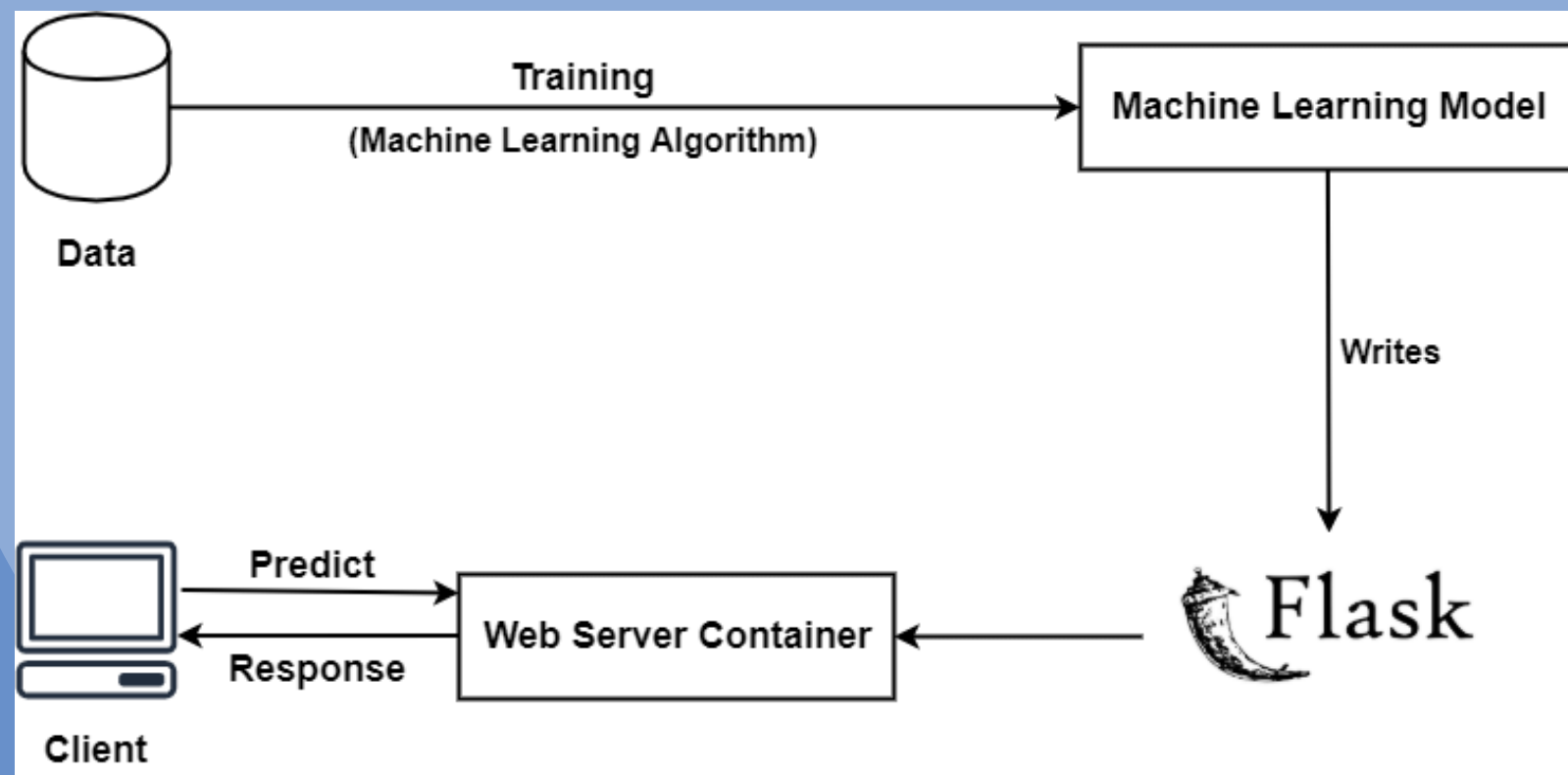


Lacking Knowledge in Financial Domain

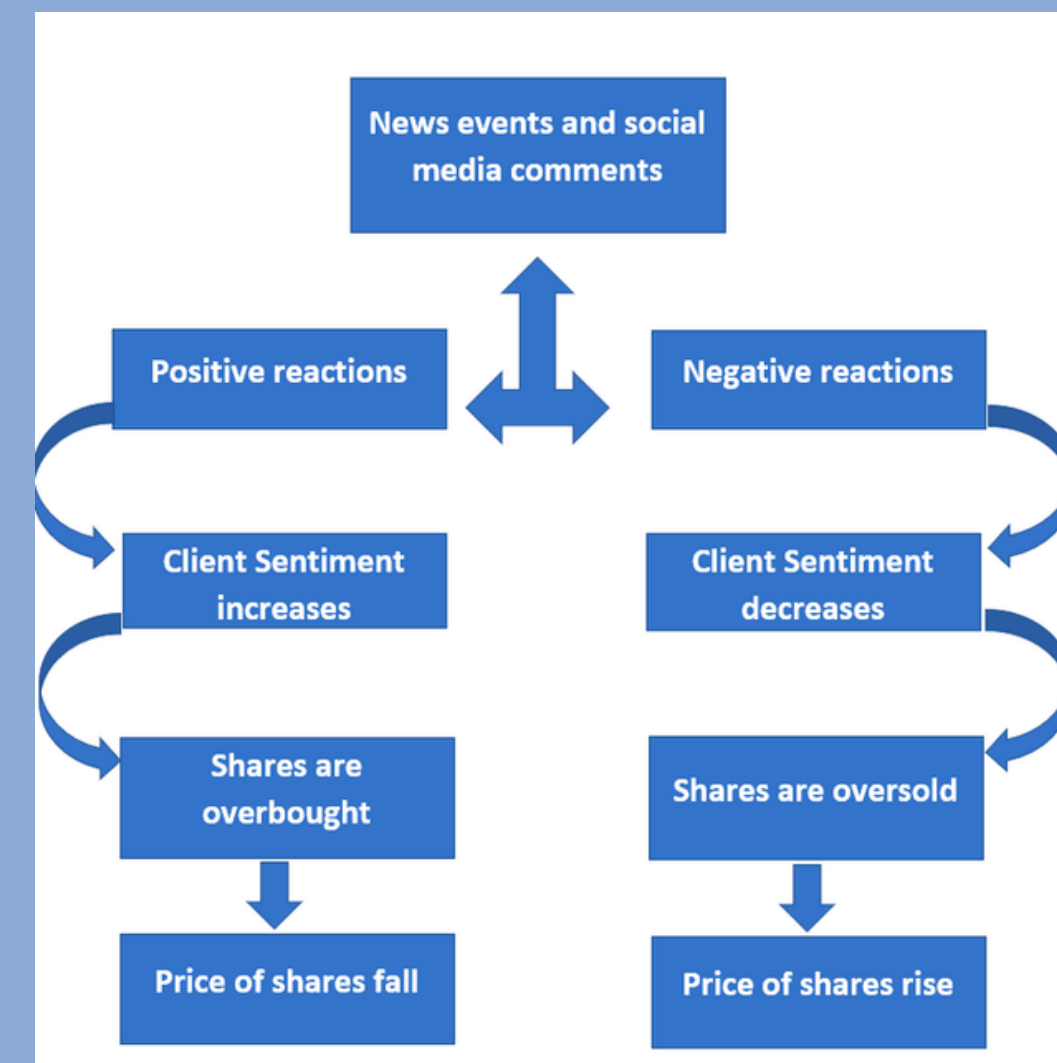


Future Enhancements

1. Interactive Dynamic Implementation



2. Including Sentiment Analysis for Better Prediction



Carpe Diem Members



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Thank you!