

# 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



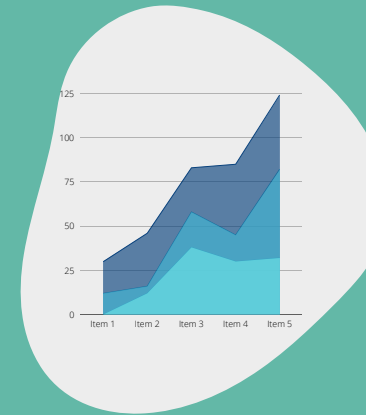
## i. Price Prediction and Trajectory Representation

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



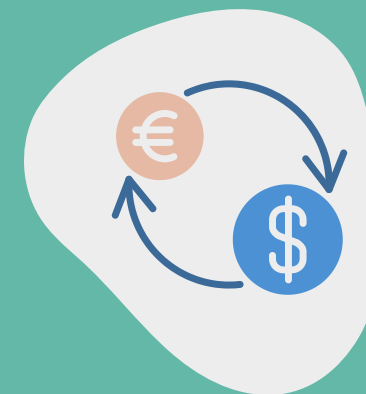
## ii. All Stocks Data In Real-Time

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



## iii. Graphical Representation

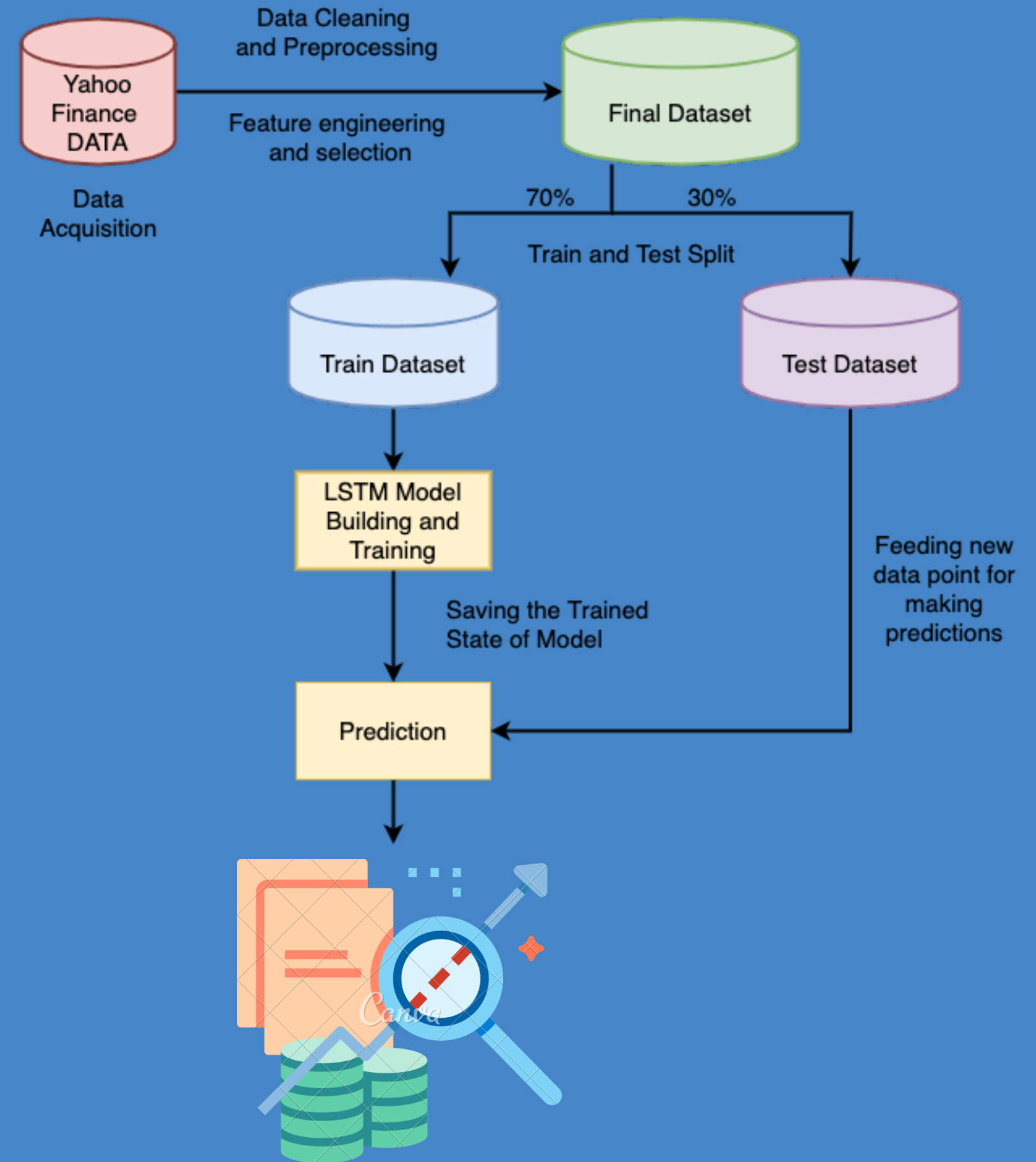
Display the history of the stock price in a interactive graphical format



## 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 Stock Data

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

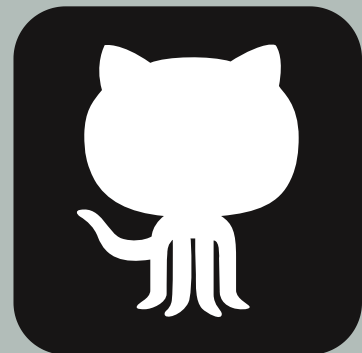
## FRONT END



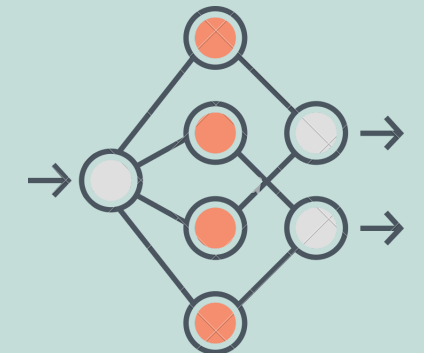
## BACK END



## VERSION CONTROL SYSTEM



## MACHINE LEARNING

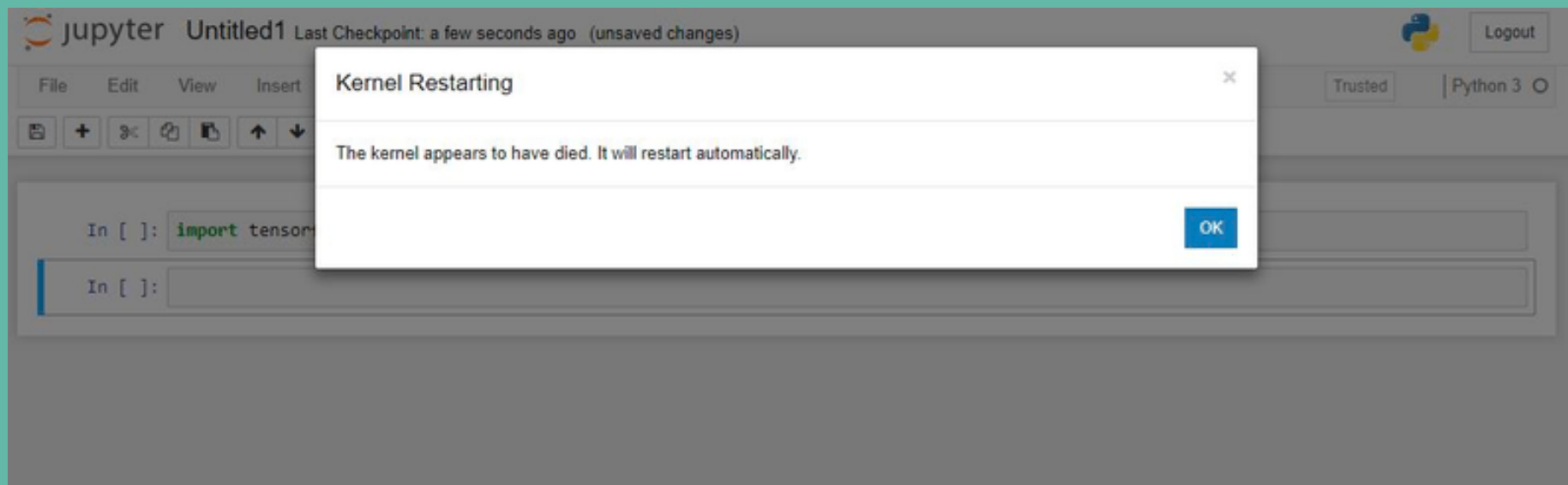




# Challenges Encountered

## Setup Issues

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

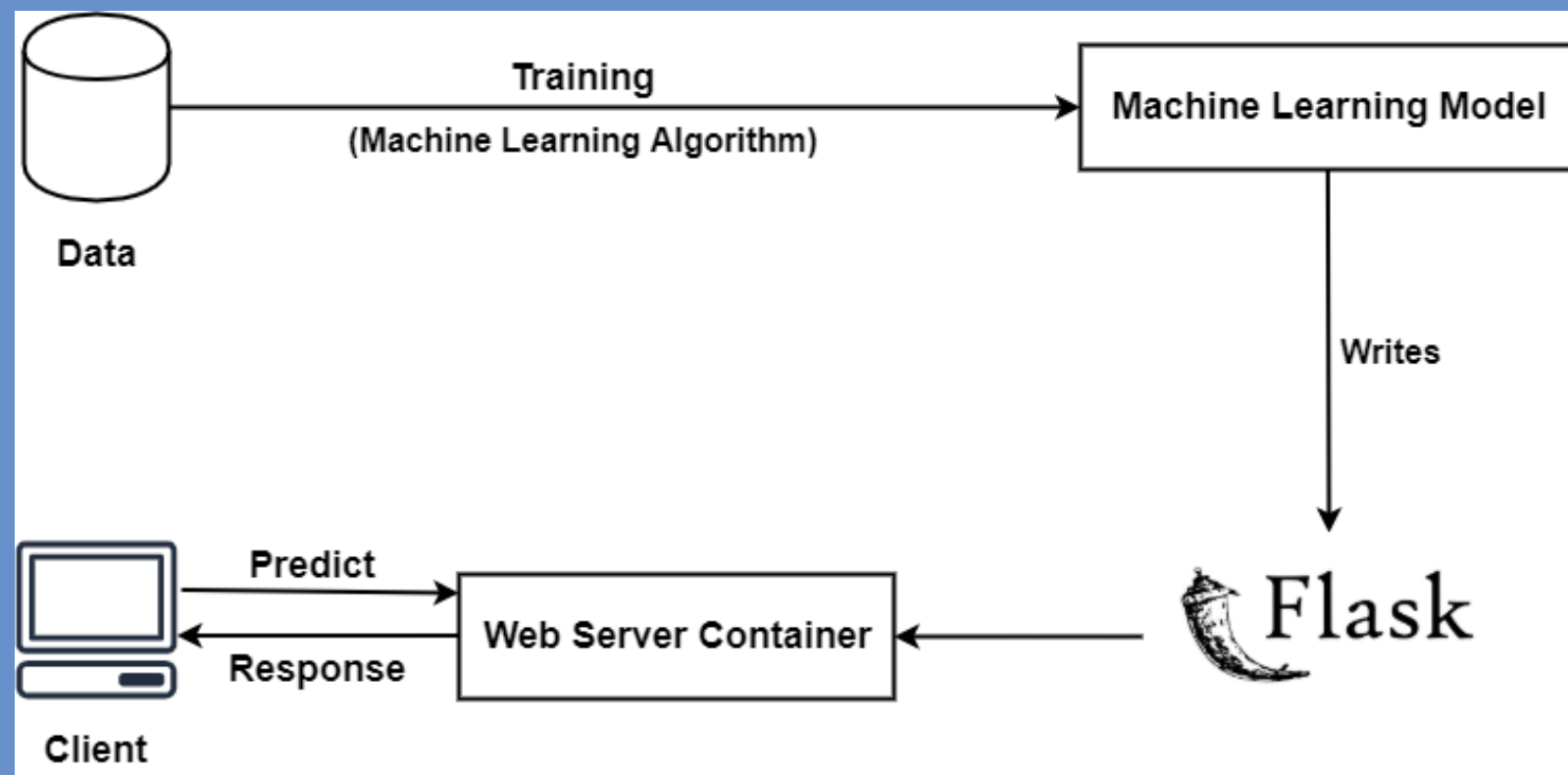


## Lacking Knowledge in Financial Domain

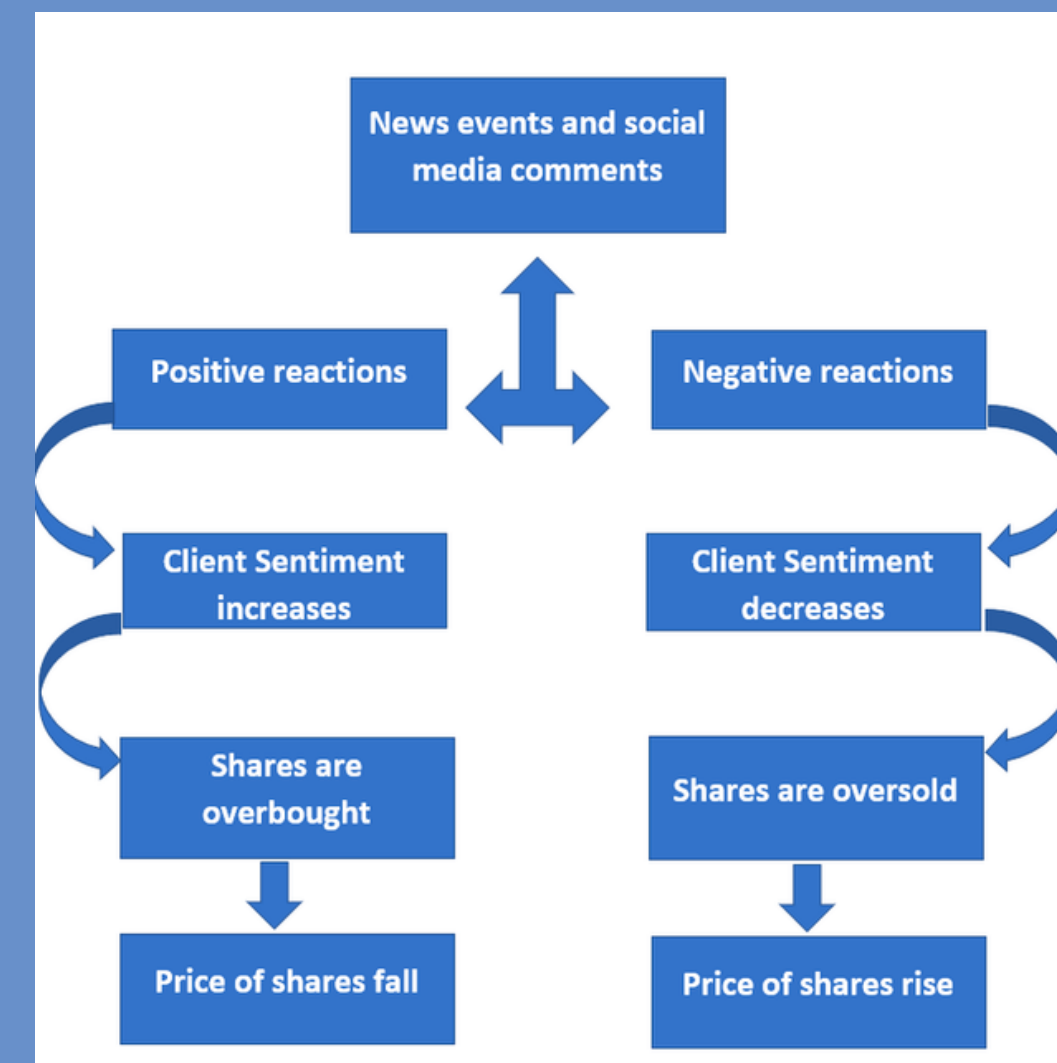


# Future Enhancements

## 1. Interactive Dynamic Implementation



## 2. Including Sentiment Analysis for Better Prediction



# Carpe Diem Members



Rashi  
Khandelwal



Jay  
Oswal



Kshitij  
Koyande



Utkarsh  
Doras



**Thank you!**