National Stock Exchange: A study on it's traits and shares prediction.

Team Members:

1. A. Varun Kumar Reddy: 19-737-121

2. Neha Darshanam : 19-737-312

3. L. Shiva Charan : 19-737-103

Sec : IT-'B' ¾ V-VI Semester.

ABSTRACT

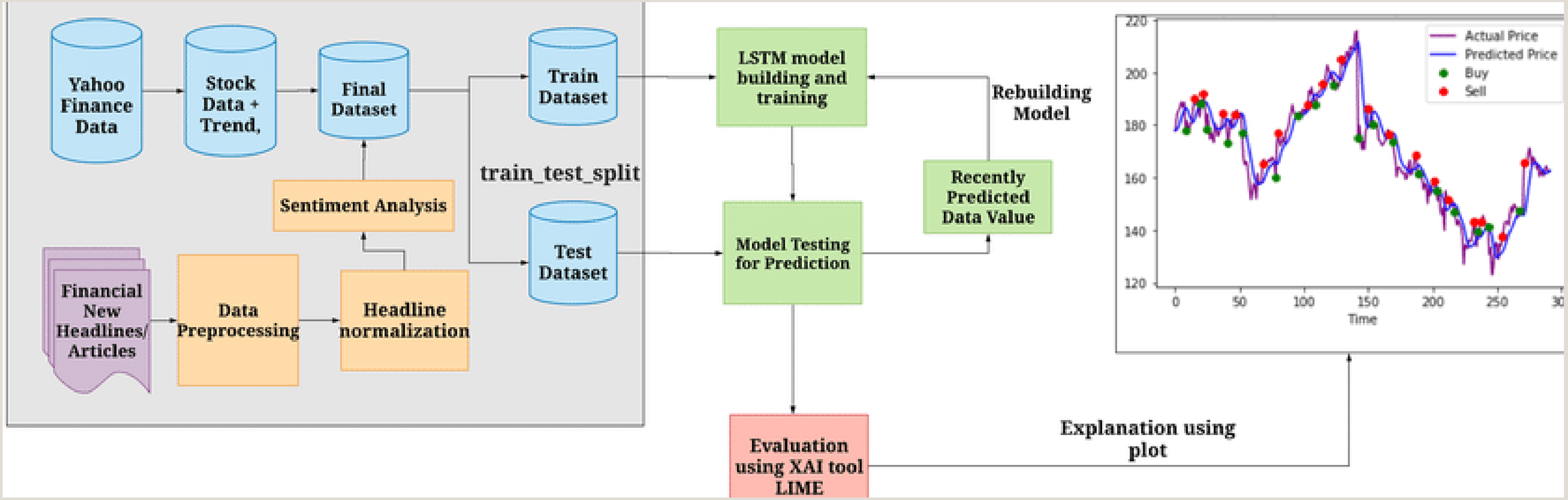
Stock is an unpredictable curve. Prediction in stock market is covered with complexity and instability. The recent trend in stock market prediction technologies is the use of machine learning which makes predictions based on the values of current stock market indices by training on their previous values. Machine learning itself employs different models to make prediction easier and authentic. The ultimate aim of this is to provide users an user friendly atmosphere to help the users who are new to investing in stocks and helping them out from the very basics as on where to invest, how to invest from where they can earn huge profits and all. Several stock price prediction approaches and models are developed including simple linear regressions, and linear interpolations. This project includes some hands-on ideas of machine learning and web development.

ARCHITECTURE

The architecture of this project would depict:
Trending market stocks and how far they can go in terms of price.
We'll have experts and prominent investors to guide first- time investors and beginners.
Finding prominent stake holders, share holders, investors, stock brokers.
Daily market reports, market turnover at the end of the day.
NSE> BSE> Licensed people> Listed companies> Shares and Scripts.

ALL STOCK PREDICTION IS BASED ON WORLD NEWS, NATIONAL NEWS, COMPANIES AGM, PROFIT LOSS, ETC.
So, we provide access to current affairs and live news on board.
Apart from these, we will implement a mix of machine learning algorithms to represnt the same.

ARCHITECTURE



SOFTWARE REQUIREMENTS

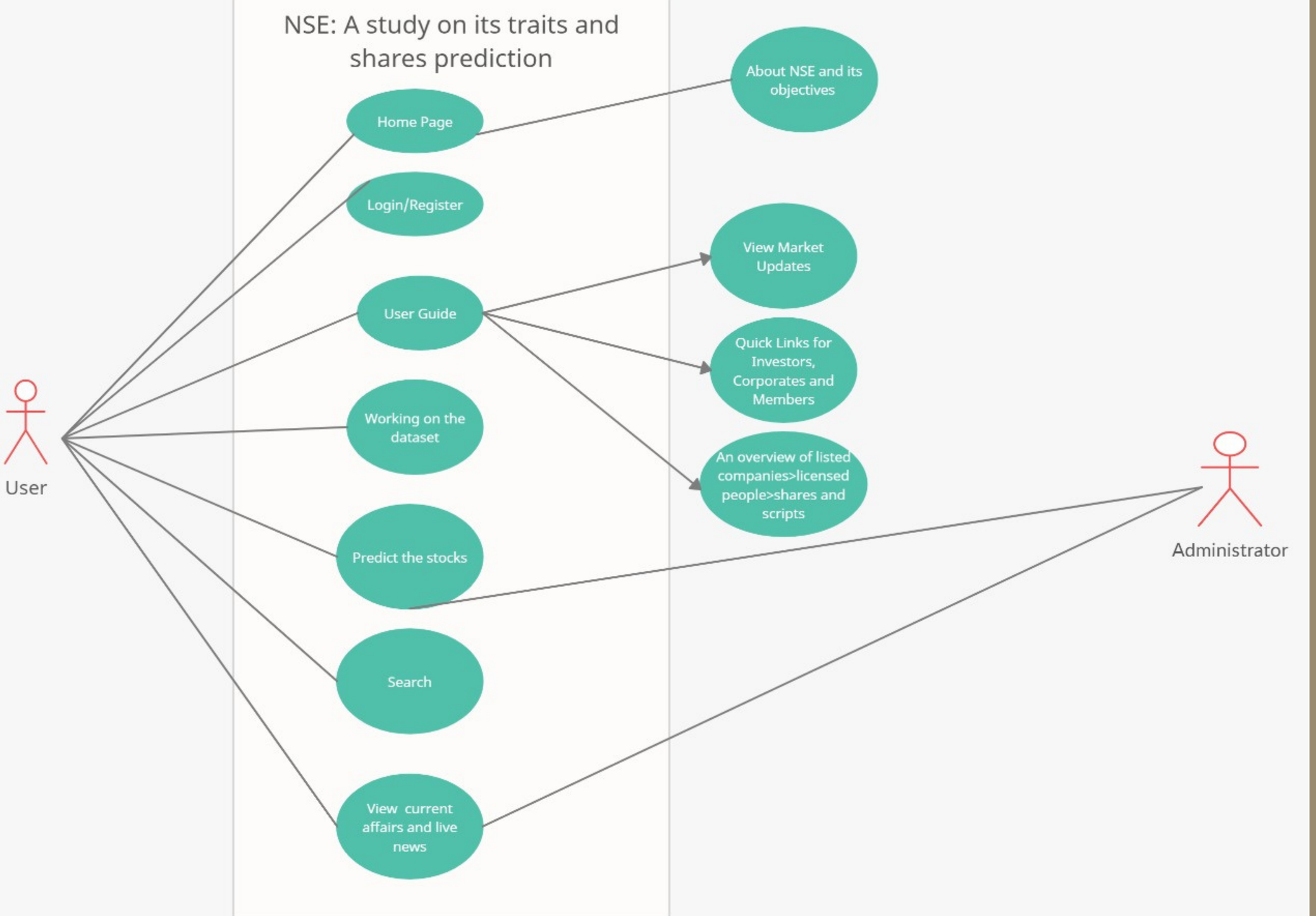
Operating System: Windows
Front End(using html, css and javascript): Text Editor, Web Browser
Back End: SQL
Jupyter Notebook/Spyder and datasets for machine learning.
Programming Language: Python

REFERENCES

https://ieeexplore.ieee.org/document/8212715

https://www.investopedia.com/articles/07/mean_reversion_martingale.asp

https://www.geeksforgeeks.org/machine-learning/


NSE: A study on its traits and shares prediction
About NSE and its objectives
Home Page
Login/Register
View Market Updates
User Guide
Quick Links for Investors, Corporates and Members
Working on the dataset
An overview of listed companies>licensed people>shares and scripts
User
Predict the stocks
Administrator
Search
View current affairs and live news

USECASE DESCRIPTION

1.Home Page:

1.1. It includes a brief description about NSE and its objectives.

2.Login/Signup:

2.1. This module deals with basic sign-in and login into our portal either using g-mail , meta or by providing user with username and password text fields.

3.User Guides:

3.1. It includes market updates

3.2. Quick links for corporators, investments and members.

3.3. An overview of listed companies>licensed people>shares and scripts

USECASE DESCRIPTION (contd)

4. Working on Dataset:

4.1. This module includes manipulating datasets using data analytics in the way we wanted to derive an output.

5. Prediction of the stock:

This basically deals with the data manipulated in the above module and predicts the stock price for that company based on its previous estimated data

6. View Current affairs and News:

6.1. This module includes news related to stocks of each and every company so that it helps the user aware whether his invested stocks is earning profits or sinking like the titanic ship in the ocean.

UI


STOCK MARKET PREDICTION
A study on it's traits and shares prediction
28.1 %
1.1 %
5.5 %
12.1 %
31.2 %
$ 255 636
$ 52 147
$ 64 369
MOTTO