Stock Market Price Prediction with Machine Learning &Django
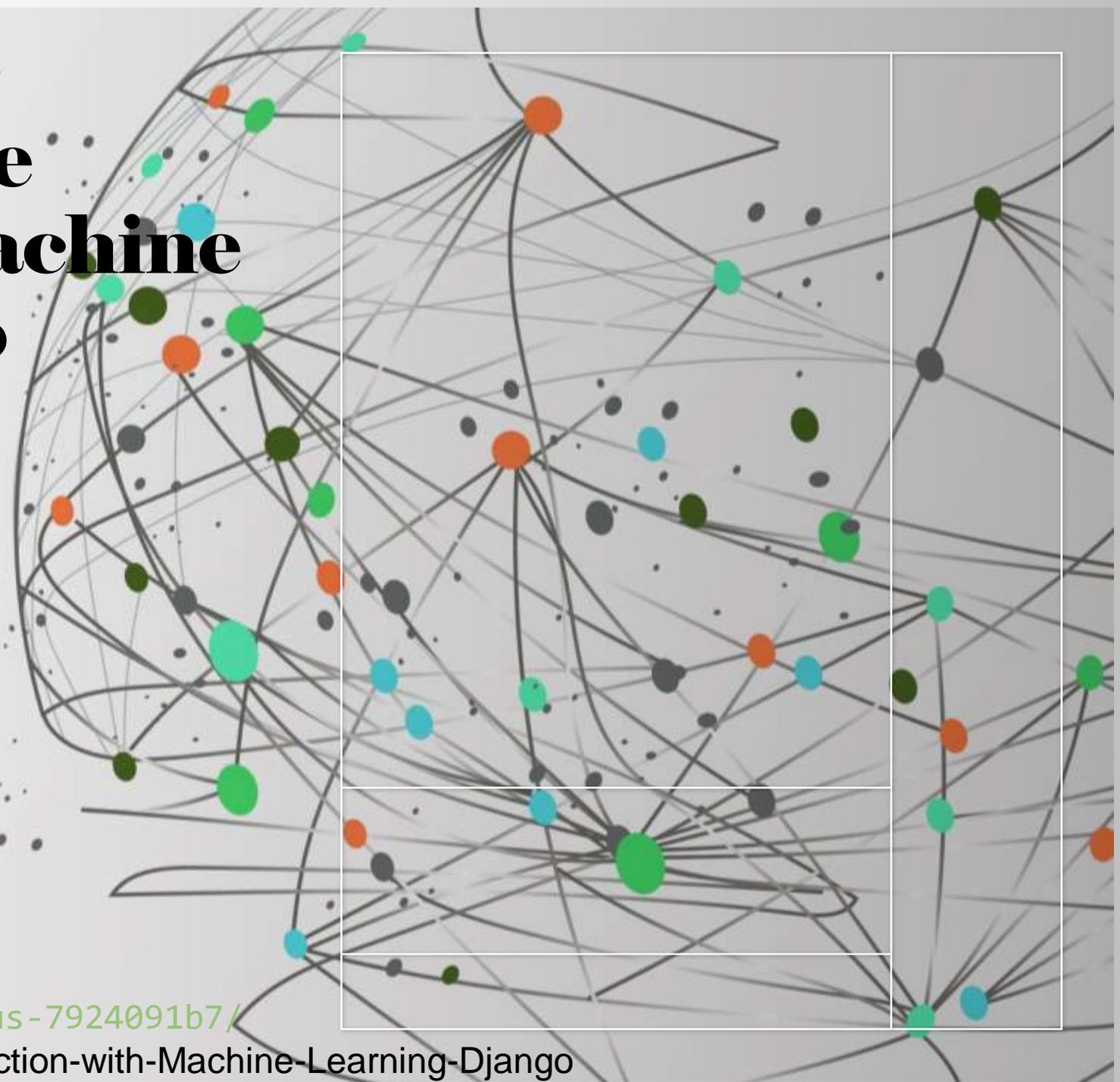
Vishal Lazrus

vishallazrus3210@gmail.com

https://www.linkedin.com/in/vishal-lazrus-7924091b7/

https://github.com/vishal815/-Stock-market-Prediction-with-Machine-Learning-Django

Objective

- The main objective of this project is to develop a web application that can predict stock price based on real-time data
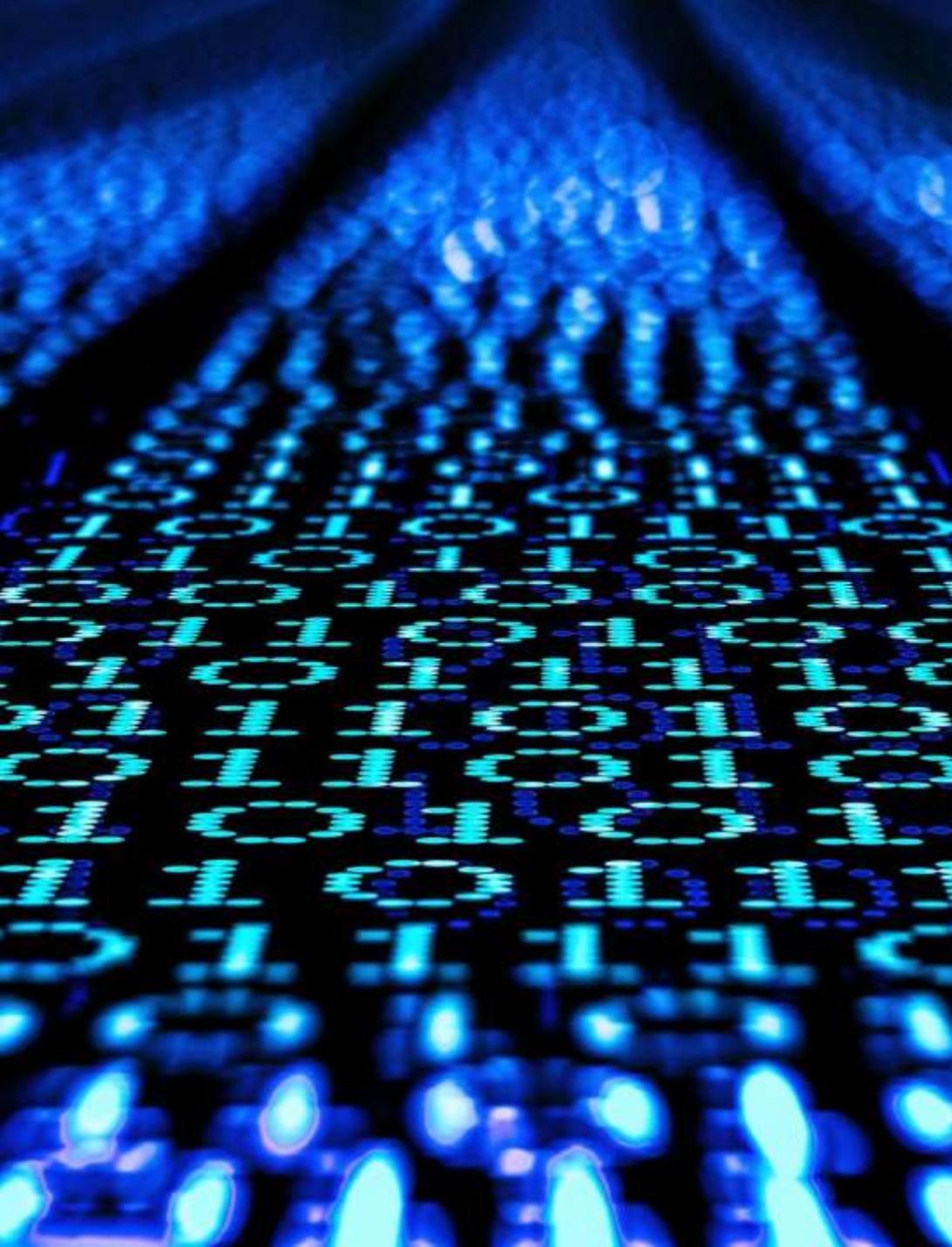
Project Scope

The project has a wide scope, as it is not intended for a particular organization

This project aims to develop generic software suing machine learing that can be applied by any business organization

It provides facility to users and generates a huge amount of summary data

Languages used

- HTML

- CSS

- JavaScript

- Python

Framework

BOOTSTR
AP

DJANGO

Machine-Learning Algorithms

- Multiple Linear Regression

- NumPy

- Pandas
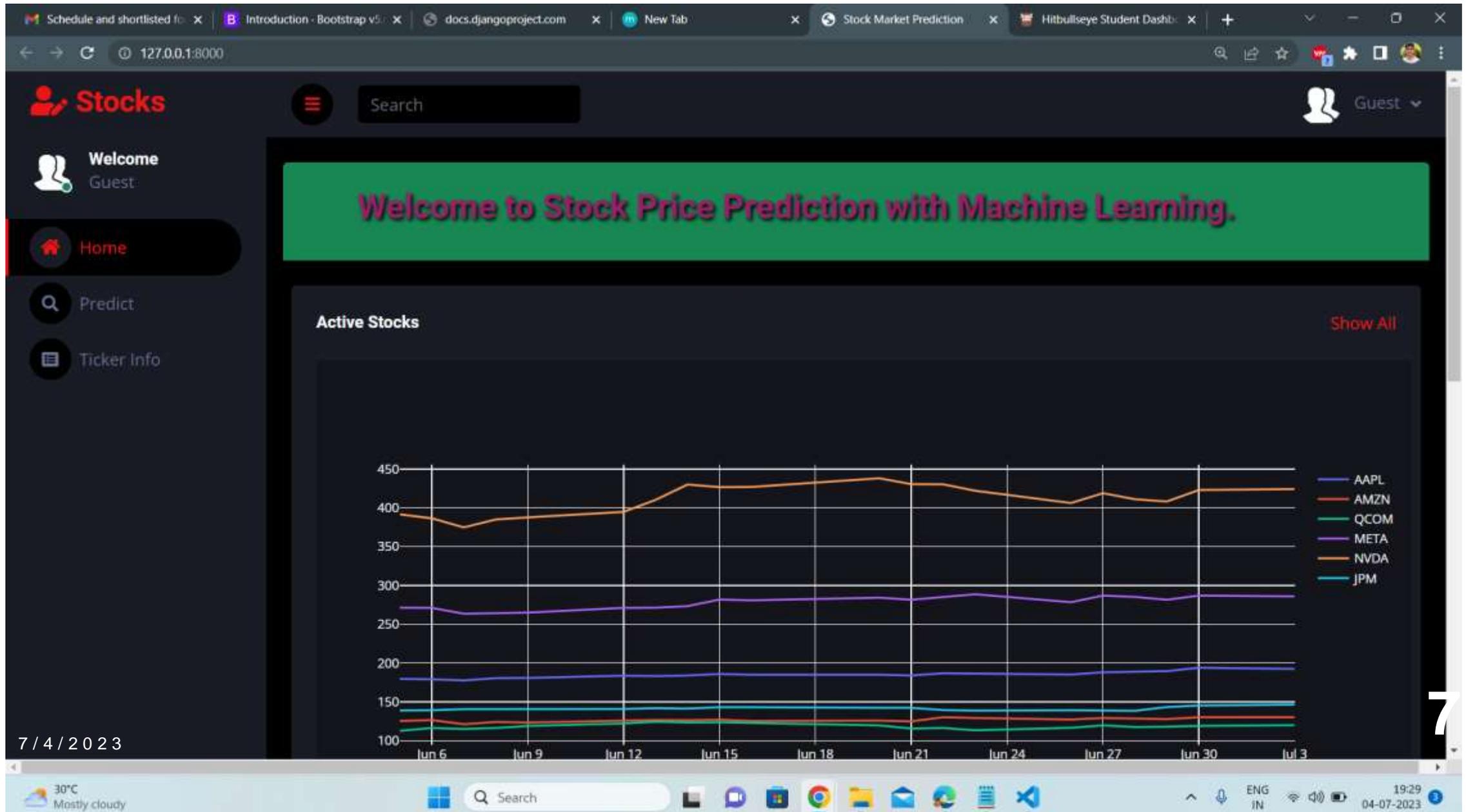
- scikit-learn

APIs used

- Yahoo Finance API

- REST API

IDE used

- VS Code

- Jupyter Notebook

Output Screen-shots of the project:
The Home page of the application that displays real time data of stock prices.

Stocks

Welcome
Guest

- Home
- Predict
- Ticker Info

Search

Guest

AAPL	193.7799987793	193.8800048828	191.7599945068	192.4600067139	192.4600067139	31458200.0
AMZN	130.8200073242	131.8500061035	130.0700073242	130.2200012207	130.2200012207	28264800.0
GOOGL	119.2399978638	120.1900024414	118.8199996948	119.9000015259	119.9000015259	14467900.0
UBER	43.1699981689	43.4000015259	42.5800018311	43.0900001526	43.0900001526	7578100.0
TSLA	276.4899902344	284.25	275.1099853516	279.8200073242	279.8200073242	119685900.0

Trending Tickers (Yahoo Finance)

Market Watch - Equity/Stock (NSE)

Vishal Lazrus
(This project assign by KUKBIT SL.)

Prediction page where users enter valid ticker value and number of days

Prediction page displaying predicted stock price, ticker details, and QR Code

Stocks

Welcome
Guest

- Home
- Predict
- Ticker Info

Information

Show More

Symbol	ADMA
Name	ADMA Biologics Inc Common Stock
Last Sale	$2.20
Net Change	0.07
Percent Change	3.286%
Market Capital	431974235.0
Country	United States
IPO Year	nan
Volume	563806
Sector	Health Care
Industry	Biotechnology: Pharmaceutical Preparations

Scan the QR Code

Left graph shows real-time stock price for past day, right graph shows
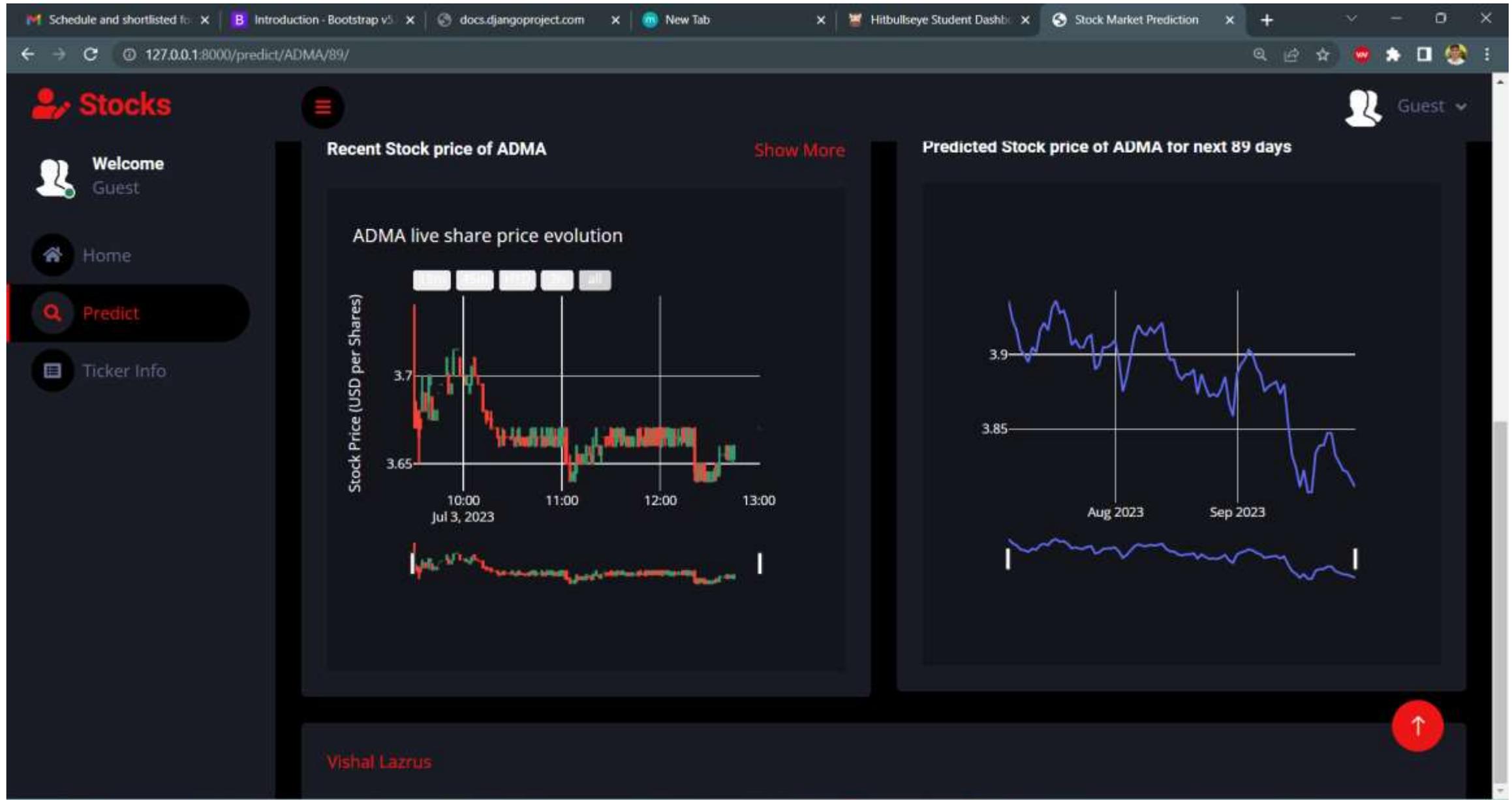
Ticker Info page displaying details of valid tickers

Code section

Conclusion

- Our Stock Price Prediction with Machine Learning website, utilizing linear regression and Django, enables users to predict stock prices based on real-time data

- With easy-to-use interfaces and insightful graphs, users can make informed investment decisions

- We provide comprehensive ticker information and ensure accurate predictions through our machine learning algorithms

Thank you!
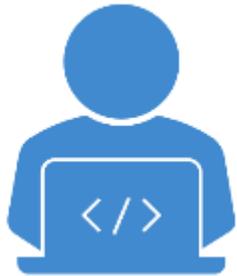
- Vishal Lazrus

- vishallazrus3210@gmail.com

- Github ="https://github.com/vishal815/-Stock-market-Prediction-with-Machine-Learning-Django"