DAYANANDA SAGAR COLLEGE OF ENGINEERING

(An Autonomous Institute affiliated to VTU, Belagavi, Approved by AICTE & ISO 9001:2008 Certified)

Accredited by National Assessment & Accreditation Council (NAAC) with 'A' grade, Shavige

Malleshwara Hills, Kumaraswamy Layout, Bengaluru-560078.

Minor Project Report

on

"REAL TIME NSE STOCKS PREDICTIONS & ANALYSIS DASHBOARD IN PYTHON"

Submitted By

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[1DS17CS068]

[Sixth Semester B.E (CSE)]
in

Machine Learning

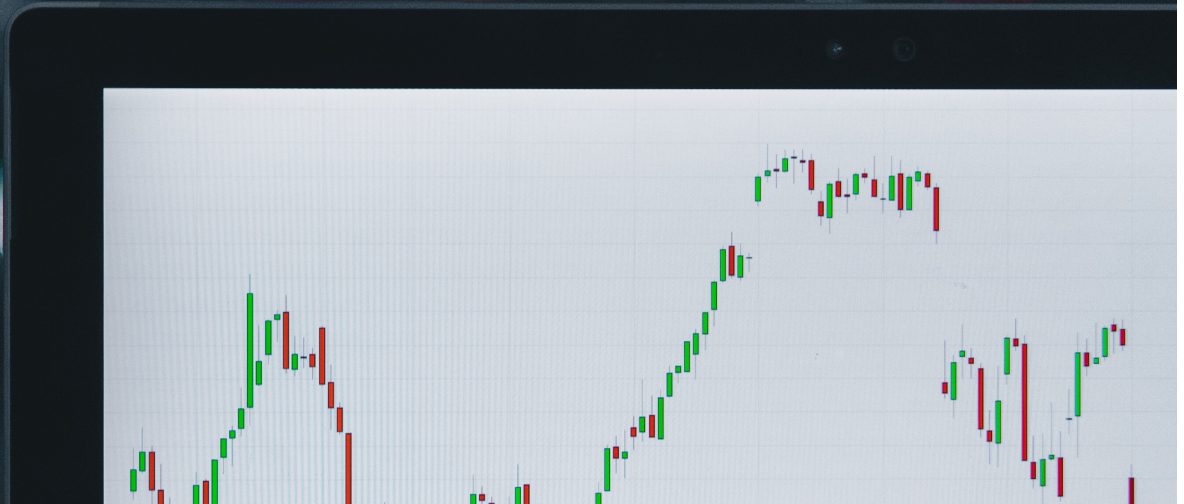Under the guidance of
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REAL-TIME NSE STOCKS PREDICTIONS & ANALYSIS DASHBOARD IN PYTHON

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What is NSE?

The National Stock market of India is the biggest stock market of India which is found in Mumbai, which was first established in Nov 1992 and it was the very first fully automated electronic exchange of India with a nationwide presence.

In this project, I have implemented the following:

- *how to fetch data of any stock(NSE) in realtime*
- *how you can perform basis visualizations to analyze the stock price*
- *using machine learning algorithms to predict the future stock price*
- *and how to make an interactive web-app using Streamlit framework available in python*

Machine Learning algorithm used is LSTM:

Long Short Term Memory, usually just called "LSTMs"- are a special kind of Recurrent neural network which is capable of learning long-term dependencies i.e remembering information for long periods of time.

Note: *Predicting future prices is very difficult, even for machine learning models. Especially when it comes to the Stock Market,the only input your algorithm take is the stock price, there is a whole lot of information you are going to lose about the underlying factor that will affect the price. Just remember your main motive of this project is to learn new techniques and tools.*

Github:*https://github.com/abhiwalia15/AI-for-Finance-Stocks-real-time-analysis-*
Medium:*https://medium.com/@waliamrinal15/real-time-nse-stocks-predictions-analysis-dashboard-in-python-f340461101c6*