Major Project Synopsis

|  |  |
| --- | --- |
| Name | Eeshan Uniyal |
| Semester | 6 |
| Course | BTech CSE |
| Batch | 2021-2025 |
| Roll Number | 210102240 |
| Subject | Major Project |

NIFTY-50 Forecasting

**Problem Area**:

I am going to work on building a machine learning model, which will predict and forecast the prices of NIFTY-50 index of the Indian Stock market. In this generation, we can see that there are a lot of startups which enable you to easily invest in stocks and trade in the share market. Although these start-ups make it easier for beginners to get started with investment in stocks, but it is almost impossible for a beginner (or rather anyone) to predict the price of the stocks… Nobody can remember the past 10 years performance and predict whether a share’s price will rise or fall in the next trading session. So, if a trader has an idea of how the market will perform on the next day, then, he/she can prepare a strategy for his/her next trade session.

In this project, I will be working on this problem and try to develop a model that will predict the price of NIFTY-50 index. The model will be trained in the past 14 years of data, which will be collected from yahoo finance.

Once I achieve this target, I will also try to develop a model that can predict the price for any given stock.

This task will be complex, but I am sure that this can be achieved.

**Technologies Used**:

* Python
* Jupyter Notebook
* Git & GitHub

**Expected Outcomes**:

* The accuracy of prediction should be more than 85%.
* The model will predict the following:

o Open price

o Close Price

o Average Price

* After successful creation of models, develop a dashboard to present the predictions.

**Prospects**:

* The scope of this project can be expanded to forecast the price for any given stock.