

**STOCK PREDICTION SYSTEM**

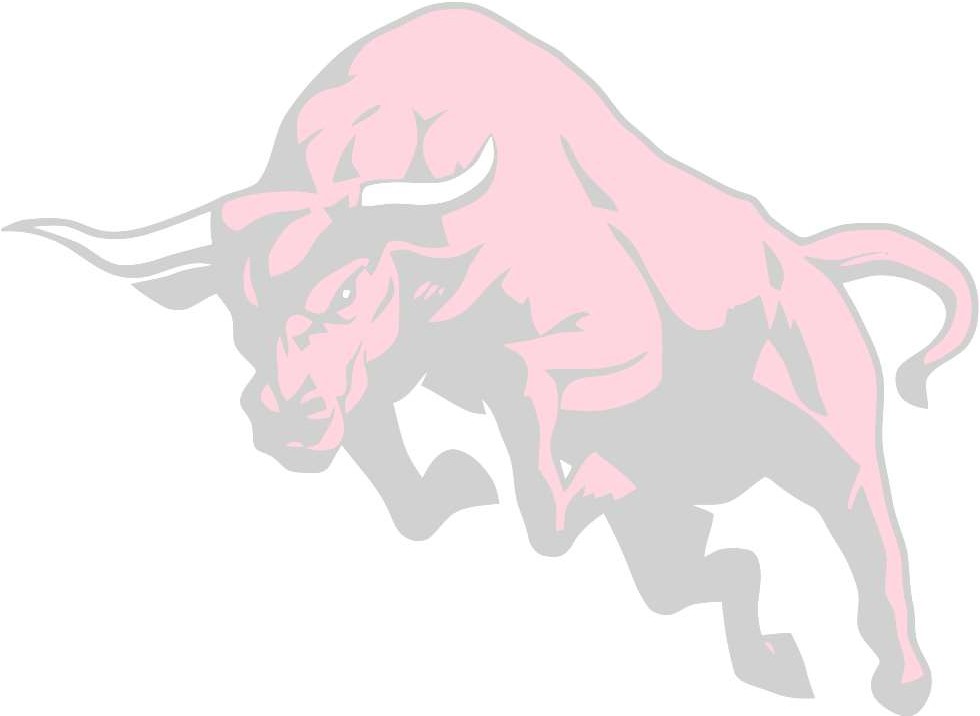
## AI – PROJECT WORK

## GitHub Link - https://github.com/Akash463/AI-Project1.git

**APRIL 04, 2020**

**LOVELY PROFESSIONAL UNIVERSITY**

**PHAGWARA, INDIA**



## Final Report on

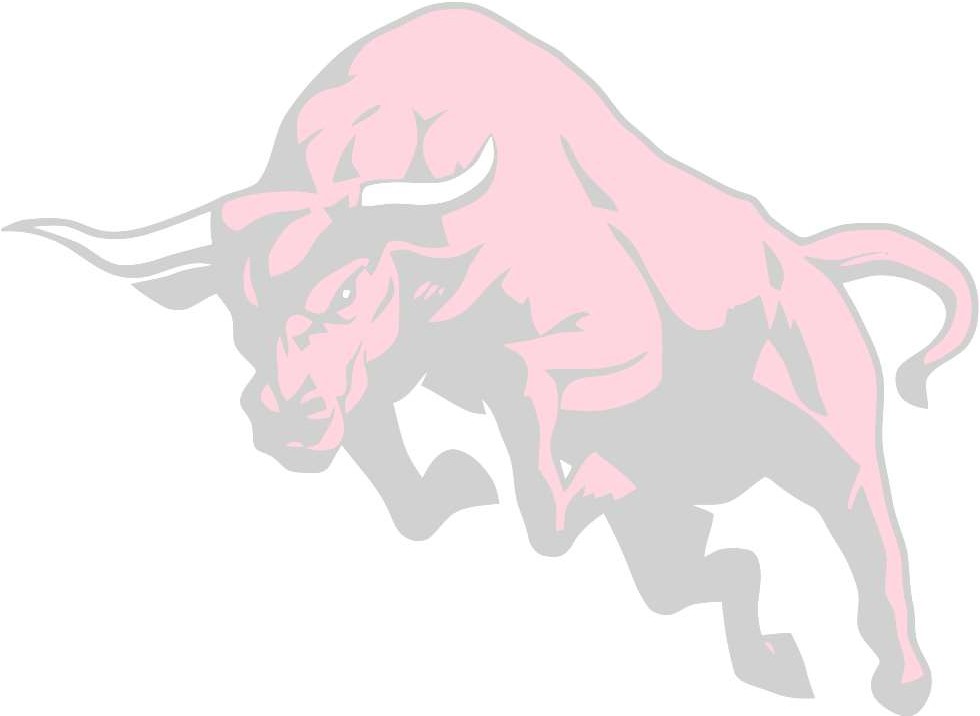
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**Subject: Artificial Intelligence (INT-404) Submitted to: Mr. Sagar Pande**

**Section: K18KK**

**Submitted by:**

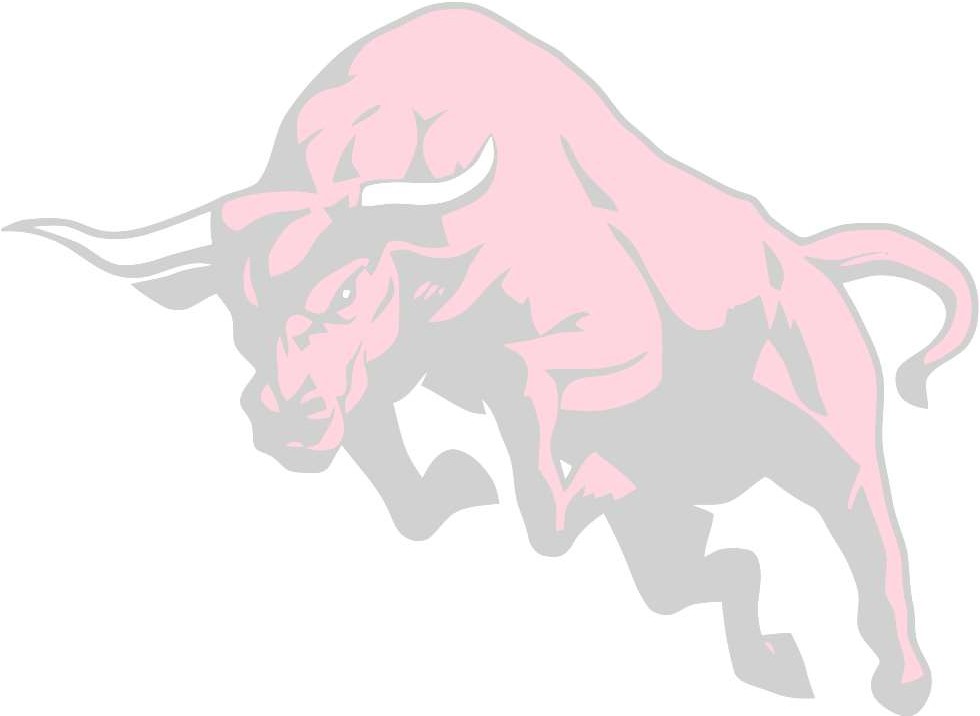
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Abstract



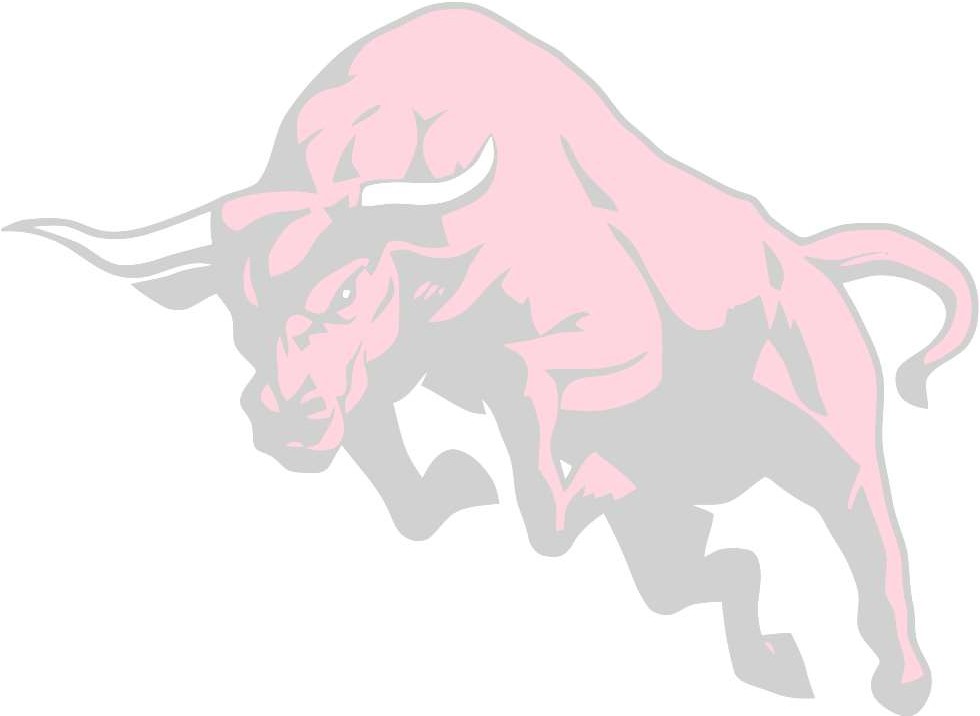
The main objective of this report is to find the best model to predict the value of the stock market. During the process of considering various techniques and variables that must be taken into account, we found out that techniques like random forest, support vector machine were not exploited fully. The first thing we have taken into account is the dataset of the stock market prices from previous year. The dataset was pre-processed and tuned up for real analysis. Secondly, after preprocessing the data, we will review the use of random forest, support vector machine on the dataset and the outcomes it generates.

The report also discusses the way in which the module is prepared and the mechanism behind the same. As a large group of people nowadays are influenced by the Stock market and Investments such kind of modules are helpful and even necessary.

The report also consist of the methods used in the module, it also consist of the implementations from the main project, with the source code and the screenshots of the results obtained in the terminal.

References to this project and libraries used in the project are also described in the report. Finally the link for the “Github” attachment is also been provided for the support purpose so that in case of any doubt one can visit the file and get the source code for support purpose only.

Introduction



The project is basically based on a module named “Stock Prediction System” with a taste of Artificial Intelligent (AI) and Machine Learning.

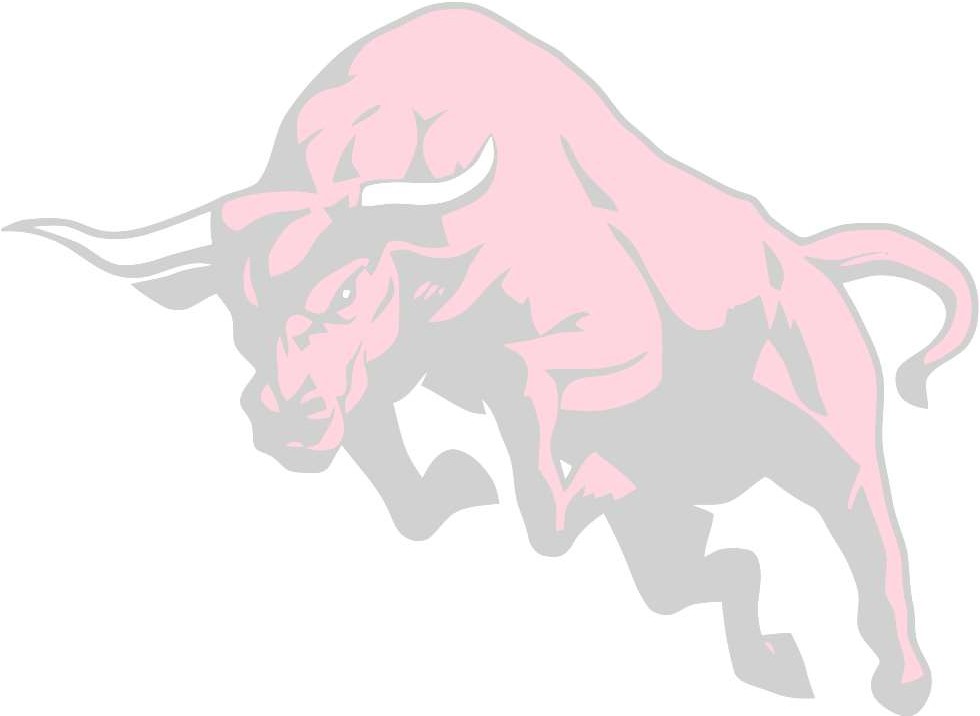
The main motive/idea behind choosing this project was to build a module which can analyse the given data and build its own learning and can help people in recommending for stock investments.

As Stock market is an important field to explore and Machine Learning can help in exploring this field more efficiently so we chose to work on this model only.

Investors all around the globe are looking for a model which can precisely calculate and come up with suggestions based on previous data gained, thus the importance of this module increases. Stock values are highly unpredictable by any common man as analysing a huge data and then coming to a conclusion is a difficult task, so machines can help humans in analysing such huge data and coming up with efficient solutions.

Stock Prediction System is an efficient model been already used and worked by many groups all around the world. There are already many projects and papers available all over the internet regarding this topic, with which we as a team are working and building up on our project. Our Project is basically a python program where in a prebuilt dataset is imported and by importing few Machine Learning libraries we will code the program to analyse those data and provide a favourable output as an recommendation.

# Related Work



Stock Prediction System is very interesting module and thus has a lot’s of work already done on this module. Internet is completely filled with a large number of projects and explanations on this topic and hence it becomes a difficult job to come up with a standard one which could have helped us in the project. One of such explanation exist in the paper published by the International Journal of Engineering and Advanced Technology (IJEAT) which became the foundation for our project.

This paper consist of a wonderful explanation for “Stock Prediction System” which helped in building this project successfully. The paper was issued by K. Hiba Sadia, Aditya Sharma, Adarrsh Paul, SarmisthaPadhi, Saurav Sanyal.

# Implementation

# \*Please refer to Run(Implementation).docx file for this.

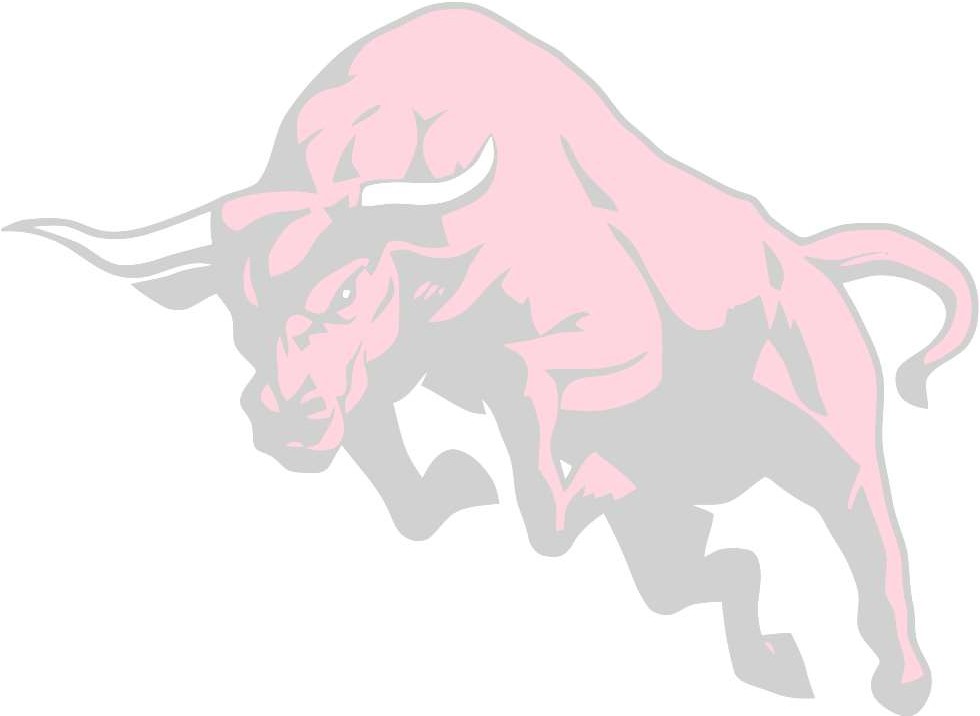
# Result

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# Work Distribution



The complete project needs a work on programming part and data gathering. The work was divided in such that one has to gather the information, make the presentation and the other has to make the report.

While the programming part was for both of the candidates.

# Libraries Used

The following are the libraries used in the project

* “Numpy” library
* “Pandas” library
* “Matplot”library
* “Quandl” python module
* “sklearn” Machine Learning package
* “Correlation” library for further implementation of program in future
* “Simple Imputer” for further implementation of program in future

# References

* <https://www.ijeat.org/wp-content/uploads/papers/v8i4/D6321048419.pdf>
* https://www.youtube.com/channel/UCbmb5IoBtHZTpYZCDBOC1CA/playlists<https://towardsdatascience.com/machine-learning-techniques-applied-to-stock-price-prediction-6c1994da8001>
* <https://aihubprojects.com/stock-prediction-ai-projects/>
* <https://en.wikipedia.org/wiki/Stock_market>