Stock Market Prediction Using Machine Learning Techniques

A EXPERIENTIAL LEARNING PROJECT REPORT

Submitted in partial fulfilment of the requirement for the award of the degree

of

BACHELOR OF TECHNOLOGY (B.Tech)

in

Computer and Communication Engineering

by

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June/2020

Table of Contents

1. Introduction/Statement of Problem

Our objective is the understand the basics of Machine learning . And determine the most reasonable method of predicting the market and find the best way to find the future stock value with the least error possible .

The Stock Market prediction task is interesting as well as divides researchers and academics into two groups those who believe that we can devise mechanisms to predict the market and those who believe that the market is efficient and whenever new information comes up the market absorbs it by correcting itself, thus there is no space for prediction.

2. Motivation and Objectives

Inorder to propose a novel method for the prediction of stock market closing price with the least possible error .

3. Architectural Design

Stock market prediction is the act of trying to determine the future value of a company stock or other financial instrument traded on an exchange. The successful prediction of a stock's future price could yield significant profit.

Stock market prediction is the act of trying to determine the future value of a company stock or other financial instrument traded on a financial exchange. The successful prediction of a stock's future price will maximize investor's gains. This paper proposes a machine learning model to predict stock market price.

4. Methodology of Work

- o First we found stock data set.
- Then we choose a WEKA software for running our project through which we got different types of errors.
- o Then with those errors we made our graphs.

5. Key Learnings / Results / Implementation

We built an understanding of functioning of machine learning techniques using regression and found out the ways to counter the errors in predicting stock prices.

6. Conclusion

We analysed the values thrown by the machine learning software and made some graphs based on the types of errors.

7. Bibliography / References

- www.yahoo.finance.com
- www.stockwatch.in
- Financial Times (www.ft.com) maintain excellent electronic versions of their daily issues.
- Reuters(www.investools.com)