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Stock Analysis & Prediction System

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ABSTRACT: Stock market price data is generated in huge volume and it changes every second.The stock market is a complex and challenging system where people will either gain money or lose their entire life savings. In this project, an attempt is made for theanalysis and prediction of stock market trends. Two models are combined to build this system, One for Analysis of stock prices from its past performances, ups & downs,Origin price of a stock, history of that industry, and the second model is to predict thefuture price of a selected stock based on present performance, Recent growth of thatindustry, Future projects of that industry, etc.

KEYWORDS: Stock market, Machine learning, Data Analysis, Prediction.

I. INTRODUCTION

This paper will develop a financial data predictor program in which there will be a data set storing all historical stock prices and data will be treated as training sets for the program. The main purpose of the prediction is to reduce uncertainty associated to investment decision making.

II. LITERATUREREVIEW

Over the past two decades, many important changes have taken place in the environment of financial markets. The development ofpowerful communication and trading facilities has enlarged the scope of selection for investors. Forecasting stock return is an important financial subject that has attracted researchers' attention for many years. It involves an assumption that fundamental information publicly available in the past has some predictive relationships to the future stock returns. In order, to be able to extract such relationships from the available data, data mining techniques are new techniques that can be used to extract the knowledge from this data. For that reason, several researchers have focused on technical analysis and using advanced math and science.This section briefly explains the domain of stock prediction using news analysis and defines the key concepts that provide the foundation for the whole discussion. It discloses the most basic evaluation measures to assess the performance of prediction algorithms

III. METHODOLOGY

The System Aims to Analyse the Stock's and Predict the value of stocks in the near future. The System is built using the Python programming language. This system includes 2 parts:

1) Stock Analysis and its history

2) Stock Value predictor.

It would be very helpful for the investors to study a particular Stock which they would want to invest in, especially for beginners. It also includes the graphical representation of Stocks. The recent and important news, arguments, etc would also be there in it. The Predictor works on a specific algorithm that covers all the important factors affecting the stocks and their values (Internal and External). The algorithm collects data from sources like Yahoo Finance data, economical and stock news, etc, and makes a Database including all this, and then this data get to use in the Analysis and Predictor algorithms

IV. SIMULATION&RESULTS

The simulation results showed the accurate price of stocks along with their open, close, daily high & daily low prices. The final data was as anticipated and calculated by yahoo Finance. The user selected stocks collect all the data from yahoo finance / Google finance as shown in the figure below was successfully updated in the final database and displayed in the analysis module that accordingly. For price predictions real time data is fetched from final database, and train it using LSTM model to find out predicted price which displayed along with future graph in prediction module.

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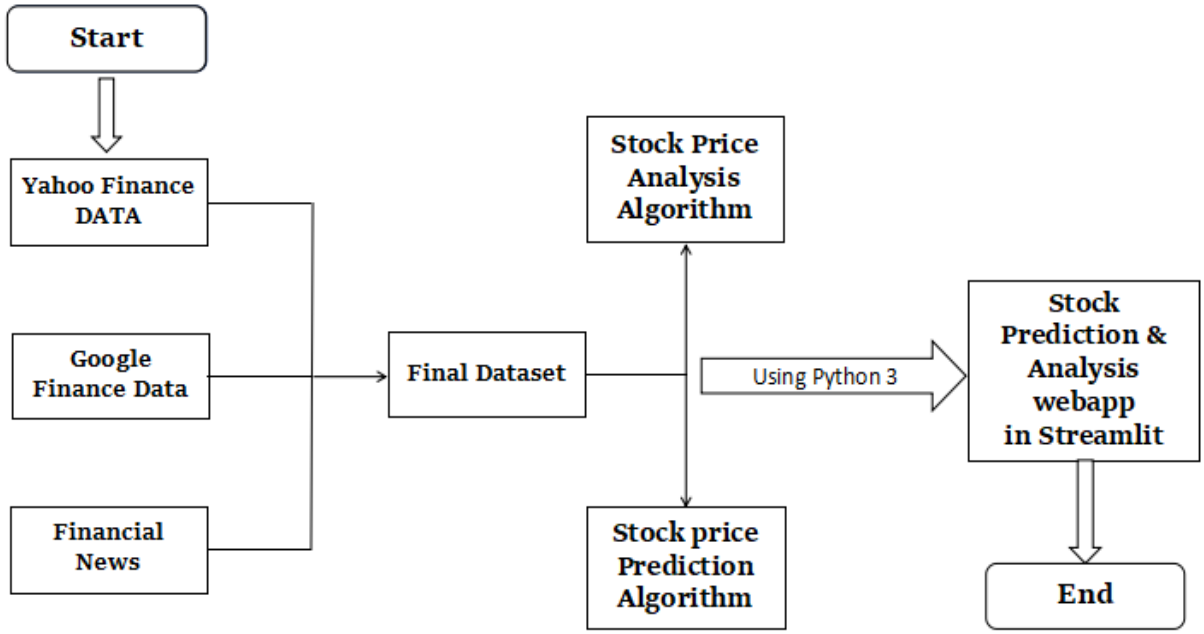

V. CONCLUSION AND FUTUREWORK

Stock trading has recently become complex for human intuition as the level of investing and trading in the market grows hence, there comes necessity for tools and methods that could increase market gains with minimized associated risks. Additional extensive research in the area of financial management, risk management and asset management with the aim of proffering additional computational methods which can improve the decision making process of financial managers are highly recommended.

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