# Patent Search

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**Abstract:**

The method for the development with the study contrasts two methods for feeding input into four prediction models: naive-Bayes, random forest, support vector machine (SVM), and artificial neural network (ANN). Ten technical parameters are computed using stock trading data (open, high, low, and closing prices) in the first approach to the input data. In the second method, the emphasis is on portraying these technical characteristics as trend deterministic data. Researchers can forecast the market using non-traditional textual data from social networks thanks to advanced trading models. Prediction accuracy has significantly improved with the use of sophisticated machine learning techniques like ensemble methods and text data analytics. In the meanwhile, because of the dynamic, unpredictable, and chaotic nature of the data, stock market analysis and prediction remain among the most difficult academic topics. Analysis of stock value mostly depends on the ability to identify trends in stock prices and anticipate the hidden models and trends that the market adopts. In recent years, information inspections have become increasingly important in the financial exchange. For many financial experts to reap the rewards of their contributions, they must learn how to analyze the important data from the stock market. FIG.1

Complete Specification

Description:PREDICTIVE ANALYSIS OF STOCK MARKET TRENDS USING AI AND MACHINE LEARNING TECHNIQUES

Technical Field

[0001] The embodiments herein generally relate to a method for the predictive analysis of stock market trends using AI and machine learning techniques.

Description of the Related Art

[0002] The uncertainties involved make it challenging to predict stocks and stock price indices. Before purchasing a stock, investors conduct two different kinds of study. The basic analysis comes first. To choose whether or not to invest in this, investors consider factors such as the inherent worth of stocks, the state of the economy and industry, the political environment, etc. Technical analysis, on the other hand, involves analyzing market activity information, such previous prices and volume, to evaluate stocks. Because the stock market is unpredictable, dynamic, stochastic, and non-linear, stock market prediction (SMP) is not an easy process. Time-series forecasting techniques, such as SMP, quickly analyze historical data and project future data values.

[0003] Forecasting financial markets has been a source of concern for analysts across several fields, such as computer science, mathematics, economics, and material science. Increasing earnings from stock trading is a crucial component of stock market forecasting. A market player, such as a private or institutional investor, might regularly outperform the market in terms of risk-adjusted returns if they could properly predict the behavior of the market. This encourages the development of precise models for stock market prediction through the application of machine learning and computational intelligence techniques. Undoubtedly, a substantial body of published research has endeavored to precisely predict stock markets through the development of intricate forecasting models and algorithms; in fact, several studies have indicated that their models have the potential to provide profits

View Application Status