

Stock Market Prediction using Machine Learning Techniques

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Abstract—The main objective of this research is to predict the market performance of Karachi Stock Exchange (KSE) on day closing using different machine learning techniques. The prediction model uses different attributes as an input and predicts market as Positive & Negative. The attributes used in the model includes Oil rates, Gold & Silver rates, Interest rate, Foreign Exchange (FEX) rate, NEWS and social media feed. The old statistical techniques including Simple Moving Average (SMA) and Autoregressive Integrated Moving Average (ARIMA) are also used as input. The machine learning techniques including Single Layer Perceptron (SLP), Multi-Layer Perceptron (MLP), Radial Basis Function (RBF) and Support Vector Machine (SVM) are compared. All these attributes are studied separately also. The algorithm MLP performed best as compared to other techniques. The oil rate attribute was found to be most relevant to market performance. The results suggest that performance of KSE-100 index can be predicted with machine learning techniques.

Keywords—Stock Prediction; KSE-100 Index; Neural Networks; Support Vector Machine.

I. INTRODUCTION

Predicting the future has always been an adventurous and attractive task for the probing individuals. This kind of prediction becomes more fascinating when it involves money and risk like predicting the Stock Market. Research has been done on Stock market prediction by researchers of different fields including the business and computer science [1,2]. Researchers have tried different approaches for market prediction including different techniques & algorithm and different combination of attributes. The attribute that makes a prediction model depends upon the factors on which market performance can depend.

On the basis of the literature review, different attributes are selected for the prediction model. Most of the research work done in stock market is by the people related to business field. Although some research has also been made by computer science researchers but it still shows a vast area to be explored.

In Computer Science the prediction may often relates to data mining or machine learning. Talking specifically about the Karachi Stock Exchange, there are very few researchers who have used the machine learning techniques for KSE market prediction. The main objective of this research is to find out whether the combination of different techniques that includes statistical, analytical and data mining techniques can predict stock market or not and up to what accuracy level.

As the main focus in this study is to predict the market, there exist few theories that are valid as well as oppose each other. The theory of random walk says price of a security can't be predicted using the historical data. It supports the argument that the difference between old price and current price of a security is completely independent. On the contrary, the chartist theories say there is some hidden information in the historical prices of a security that gives a clue to future price of that security. In [4], the researchers have used historical data to predict the position of stock market. The results of [4] proved that historical data has strong predictive ability. In [5], the research was performed on Asian markets to find out the factors that have concrete impact on market performance. In [6], the researchers have used Artificial Neural Networks (ANN) and statistical technique ARIMA on almost 3 year's data to predict KSE-100 index. The study presented in [7] has done a comprehensive analysis of the underlying relationship between macro-economic factors and KSE market. Similarly, few researches like [8] showed that person's mood plays the critical role in decision making. If the collective mood of the public is found using social media, then this can also help in predicting the decision they will make about investing the money in the market and thus market performance. In [9], the researchers proposed the use of data collected from different global financial markets with machine learning algorithms to predict the stock index movements. The study [10] made the use of financial NEWS in order to predict market prices. Current and historical NEWS about companies, economic and

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