

**Future Stock Price movement in response to US Dollar exchange rate using Machine Learning Techniques****Muhammad Atif Saeed***FAST National University of Computer and Emerging Sciences, Islamabad, Pakistan***Abstract**

A stock market is a place where shares of public limited companies are traded. The stock exchange allows the end-user to buy and sell the shares and other security/financial instruments. Previously, different mathematical techniques are used to predict the movements in the stock markets or shares based on different market factor i.e. demographic factors, country's financial position, political factors. The purpose of the research is to find the relationship or impact of the US Dollar fluctuation on the stock price movement. For the analysis purpose use two different dataset, first, movement in the USD as independent data member and fluctuation in stock price as a dependent data member. For this research, deploy different machine learning analytical tools to analyze the prices and predict the near future price or fluctuation of the prices based on different factors of the market.

In the last decade, Machine Learning (ML) is one of the powerful analytical and prediction tools which is used to predict the stock price movement. Researchers are widely used different prediction or classification machine learning techniques for the analysis of financial data to predict stock prices and this will help the investors to make better decisions about the investment, where to invest, and how much they have to invest. This decision will help them to take better financial advantage or profit from their investment decision.

Biography

My name is Muhammad Atif Saeed student of Master Degree in Data Science from a reputable university of Pakistan named National University of Computer and Emerging Sciences. I have also qualified my Master degree in Information Technology as well as Cost and Management Accountant. So I have a vast experience of Machine Learning, Deep Learning as well as Stock Market. So that's why I want to work on the combination of these two fields. So I am going to predict Stock Market and the Impact of US Dollar exchange rate on the Pakistan Stock Market Index and prices of the stocks.