**INTRODUCTION**

Recent advances in the stock markets have caused significant effects on finance which can be more complicated to predict the indexes. Nowadays, most of people are directly or indirectly related to this subject and the more technology is developing the more they need to know and predict the indexes and this makes them be interested in index prediction. However, due to the quick changes in stock price, the prediction of stock price becomes a challenging task. Moreover, effects of the cryptocurrencies have increased this complexity [1]. These factors cause traders to go through using intelligent systems rather than using fundamental analysis to predict the price. Accordingly, traders can sell the index before value decline or buy before the price rises and this causes the trader to have much more profit. Also, it seems unbelievable for traders to replace their experience and professionalism with intelligent systems, but due to the remarkable amount of data and technological advancements of intelligent systems, algorithms, pattern recognition and Artificial Intelligence, it seems appropriate to use and even, combine them with the experience and professionalism. Since the significance of accurate information, Neural Networks (NN) have become one of the successful and efficient algorithms and models that are being used for modeling stock market behavior [2]. Artificial Neural Network (ANN) is a popular method which also incorporate technical analysis for making predictions in financial markets. One of the most practical methods in this area is Long Short Term Memory (LSTM) [3]. Pattern recognition is another method to predict the repeated patterns of a stock index over a period of time in the future [4]. In stock trading, it is very decorous that a model like NN provides a prediction nearly to the real price. Predicting the

stock market is one of the processes that requires experience and reacquaint to have an accurate prediction. However, this process is qualitative and cannot be a complete prediction. AI and NN convert it to a quantity that means it can be used with mathematical approaches and results in a scalar number form that gives an amount with high accuracy and small Root Mean Squared Error (RMSE) values for future that is more reliable than qualitative predictions[5, 6]. Although this approach is useful, all users cannot apply it due to it is not implemented on an OS program. One of the Neural Networks is Real-Time Recurrent Learning (RTRL) network that is practical and able to store the information for later use to enhance the efficiency and a better way for modeling [7]. In [8] it is proved that the algorithms based on RNNs can be useful in financial market prediction. The program which is presented in this paper can be flexible and dynamic that means user can change the mark in fraction of a minute. When it is incorporated with Python programming AI can be more advantageous than previous methods, and a wide range of people can use it. The NN is means of performing machine learning, in which a computer learns to perform some tasks by analyzing training examples, and that is the base case of prediction, and the approach to quantitatively predict the stock market. This simple feature is used in this paper to make complicated approaches for accurate prediction close to the real value. The organization of the paper is as follows: In section 2, we provide preliminaries and tools. The proposed framework is presented in section 3. The results are presented in section 4. Finally, section 5 draws a conclusion and further improvements.