

**SHARE MARKET PREDICTION SYSTEM FOR  
COLOMBO STOCK EXCHANGE USING ANN, RPA &  
ML**

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## **Abstract**

Investing in stock market is trending topic nowadays. Most of the young generation is tended to invest in the stock market. This research is to predict the future market values of the stocks and recommend the best shares to buy fir the end user.

The technologies such as machine learning, deep learning, artificial neural networks, LSTM models were used to develop the final solution of this research. A web application developed using HTML, CSS and Java scripts. The implemented application will be graphically representing the stock values and also able to trade through the system using a third-party website.

The open-source libraries such as TensorFlow, Keras, pandas, NumPy and matplotlib were used and the prediction model was build using python programming language using google collab and visual studio code as the integrated development environments.

**Keywords:** Machine Learning, Stock Market Prediction, RPA, ANN