



Forecasting Stock Price Using Machine Learning

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***Abstract:** This study aims to investigate how machine learning and deep learning algorithms predict stock values. The project will include collecting and analysing historical stock price data, as well as training a number of machine learning models, including linear regression and random forest, in order to forecast future stock prices. The research will also examine the use of deep learning techniques including neural networks, long-short term memory, and gated recurrent units in order to increase the accuracy of stock price predictions. The results of this experiment may provide financial experts and investors with vital knowledge on the accuracy and effectiveness of different machine learning and deep learning models in predicting stock prices.*

Keywords: Machine Learning, Deep Learning, Neural Networks, Long-short term Memory, Gated recurrent unit, linear Regression, Random Forest, Stock Market.

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