CMR COLLEGE OF ENGINEERING AND TECHNOLOGY

(UGC AUTONOMOUS, ACCREDITED WITH NAAC A+ GRADE)

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PROJECT ONE PAGE WRITEUP

COURSE CODE: A405801 **COURSE NAME: Real Time Research Project/Field Project.**

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PROJECT TITLE	Stock Price Predictor	
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ABSTRACT

Stock price prediction is a challenging task due to market volatility and multiple influencing factors. This project utilizes Long Short-Term Memory (LSTM) networks, a type of Recurrent Neural Network (RNN), to analyze historical stock data and identify trends. The implementation is done using Python with libraries such as TensorFlow/Keras for building the model, Pandas for data handling, NumPy for numerical operations, Matplotlib for visualization, and Scikit-learn for data preprocessing and evaluation. The dataset undergoes cleaning and normalization to enhance accuracy, and the model is evaluated using Mean Squared Error (MSE) and Mean Absolute Error (MAE). LSTM's ability to recognize patterns in sequential data makes it highly effective for stock price forecasting. Future improvements may integrate news sentiment analysis and economic indicators for better predictions. The goal is to provide investors and traders with an AI-driven tool to make informed financial decisions.

Project guide Project Coordinator HOD CSE