

STOCK ANALYSIS AND MOVEMENT PREDICTION USING NEWS HEADLINES

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PROJECT GUIDE

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ABSTRACT

Stock price prediction and its movement is extremely important for making wise investment decisions, Thus predicting the movement of stock prices demands an efficient and flexible model that is able to capture long range dependencies among news items And provide accurate results.

The goal of this project is to use the top, daily news headlines from various sources to predict the movement of the Dow Jones Industrial Average.

The news from a given day will be used to predict the difference in opening price between that day, and the following day.

We would like to develop a deep learning model based on Long Short Term Memory Recurrent Neural Network (LSTM-RNN) to train on our data and use it for prediction.

OBJECTIVES OF THE PROJECT

- To predict the stock movement for each and every day
- To help the users in making wise investment decisions i.e. which stock to invest on, when to invest etc

OUR ENGINEERING SOLUTION

- We would like to scrape the news headlines for the past 4 years along with stock data and divide the data into training, validation and test sets and train an LSTM based RNN model to get the most reliable accuracy.
- This can be further extended by using the model to test with custom headlines and predict the stock prices.

TEAM'S VISION

- To help the people understand variations in stock prices with daily news thus aiding them in making wise investments.