AI Based Stock Market Trending Analysis

Utilising news sentiments to forecast stock prices

This project utilises news sentiments and the historical close prices of the S&P500 index to forecast the next day price. The Bi-directional Encoder Representation from Transformer (BERT) and Long Short-Term Memory (LSTM) models will be used for sentiment analysis on New York Times news headlines and for next day price forecasting respectively.

Diagram

Forecast

Machine Learning Models

Student: Redmond Goon
Supervisors: Dr Wang Zhaoxia, Dr Li Fang