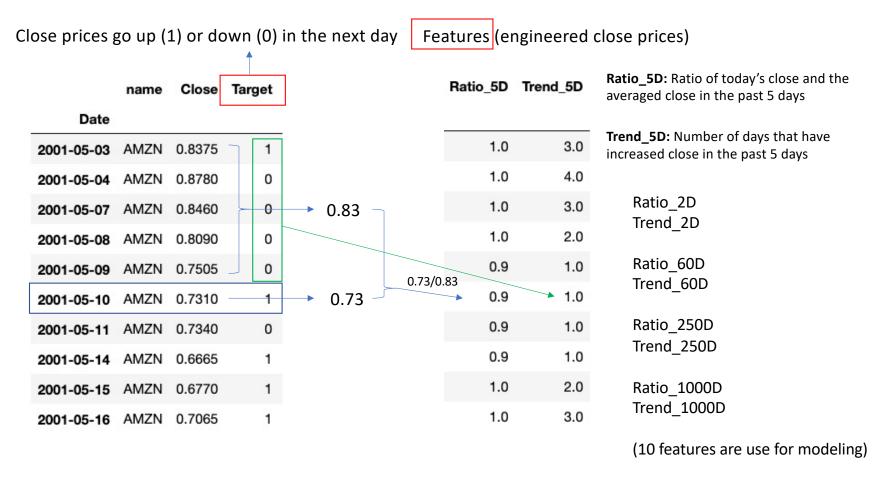
Stock Market Prediction Web Application

Ni-Ting Chiou

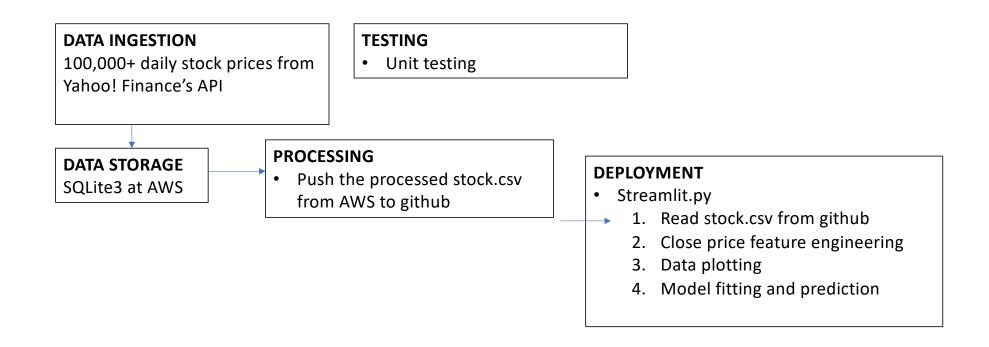
Introduction

- Motivation:
 - Investors would like to know whether selling or buying stocks tomorrow can make profits.
- Goals of the web app:
 - Characterization of the trends of the stock market.
 - Predicting the chances that the stock price will go up or down tomorrow.

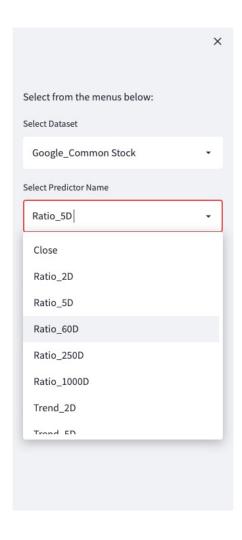
RandomForestClassifier modeling of the stock price

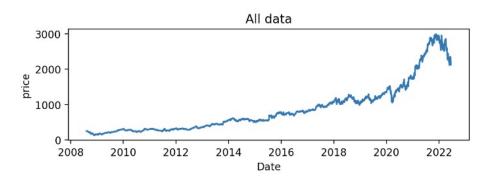


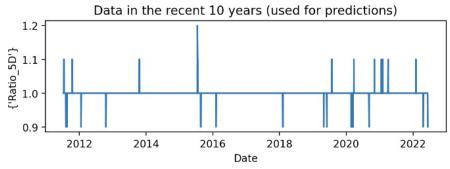
Data pipeline



• https://share.streamlit.io/chiount/engineering/main







RandomForestClassifier model with all 10 features

precision_scores: 52.94%

Probability that the price will increase in the day next to 06/13/2022 is 55.61%

Future works

- Engineer different features, such as hourly close price, to see whether the precision scores can be increased.
- Move the steps of feature engineering and modeling fitting to AWS so that the saved model can be loaded directly during the deployment to increase the speed of prediction.