I am interested in predicting Technology sector stock based on medias with using NLP. Hence, for the program to understand medias, I need to remove all stopwords, punctuation, and numbers, which are not that informative and calculate sentiment. Will be better if I can make a program for investors to decide to buy, hold, or sell stocks. Need to have a deeper understanding of regex for news.

There are many factors that influence stock such as price to earnings ratio, debt-to-equity-ratio and earnings growth.

Texi Fee Prediction

Crime?

Movie Recommendation System

Music Recommendation System. Get the data from Spotify API. 🡪 Unsupervised Learning.

3 types of recommendation system. Content-based, Collaborative and Popularity.

From Spotify, they use collaborative filtering, which is finding songs from other playlists that are very similar to your preferred playlists, but not in your playlists.  
In today’s society, music streaming is ubiquitous as people with air pods can be easily seen.

The goal for this project is providing songs that the users will like. There are about 35 million songs and about 20,000 songs are added daily. How will it be possible to find the songs that users will like? We can get top 200 songs and recommend.

If users tend to skip songs, then users tend to dislike the songs.

Genre and subgenre.

Loudness, and key.

Co-occurrence matrix.

Use Library surprise for recommendation system.

<https://surprise.readthedocs.io/en/stable/prediction_algorithms.html>

EX) <https://github.com/Mooseburger1/Springboard-Data-Science-Immersive/blob/master/Capstone%201%20Project/Report/Capstone%201%20Report.pdf>

<http://benanne.github.io/2014/08/05/spotify-cnns.html>

data set: <https://zenodo.org/record/2594557#.XLPizZNKjmE>

<https://www.kaggle.com/caicell/spotify-chart-trend-seasonal-arima>

<https://www.dtic.upf.edu/~ocelma/MusicRecommendationDataset/>