Annotated Bibliography for Pitch 1

- Using Twitter sentiments to predict the mental health of people during different stages of the covid19 pandemic.
- Manguri KH, Ramadhan RN, Amin PRM. Twitter Sentiment Analysis on Worldwide COVID-19 Outbreaks. *Kurdistan Journal of Applied Research*. Published online May 19, 2020:54-65. doi:10.24017/covid.8
    - Includes the sentiment analysis procedure and algorithm and explains how each part of the process works.
    - This paper includes the sentiment analysis from 9/4/20 - 15/04/20, which is during one of the most spread covid-19 weeks. I could include this week in my timeline and compare my analysis with theirs. To see if my analysis is on the right track.
    - Mentions the python's tweepy library that I could use to access Twitter's data.
    - Mentions python's library TextBlob that I could use to Perform sentiment analysis of the tweets.

- Using Twitter sentiments to predict the mental health of people during different stages of the covid19 pandemic.
- Valdez D, Thij M ten, Bathina K, Rutter LA, Bollen J. Social Media Insights Into US Mental Health During the COVID-19 Pandemic: Longitudinal Analysis of Twitter Data. *Journal of Medical Internet Research*. 2020;22(12):e21418. doi:10.2196/21418
    - Mentions the latent Dirichlet allocation (LDA) model to characterize the evolution of hashtags over time.
    - Includes the use of Valence Aware Dictionary and Sentiment Reasoner (VADER) to gauge the emotional valence of tweets, which I could use to analyze the sentiments of the tweets
    - Includes the use of Pruned Exact Linear Time (PELT) change-point detection algorithm to identify significant change in tweet volume and sentiment. Which I could use to see the date where tweet sentiments shifted or changed. This is valuable since I am trying to see how different stages in the pandemic have an affect on the twitter sentiment and the mental health of the people.

- Using Twitter sentiments to predict the mental health of people during different stages of the covid19 pandemic.
- Xue J, Chen J, Chen C, Zheng C, Li S, Zhu T. Public discourse and sentiment during the COVID 19 pandemic: Using Latent Dirichlet Allocation for topic modeling on Twitter. *PLOS ONE*. 2020;15(9):e0239441. doi:10.1371/journal.pone.0239441 https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0239441
    - Mentions how they cleaned up the dataset and what features did they collect from each tweet from the cleaned up dataset. Which is helpful for me when I create my dataset
    - Mentions the use of Unsupervised machine learning to examine patterns from the data
    - Includes the use of latent Dirichlet allocation (LDA) to examine how the tweets were connected by identifying its pattern, structures and themes. I can use this to classify and identify tweets with similar patterns/texts.
    - Mentions the use of computational and natural language processing-based method for sentiment analysis and the use of plutchik-wheel-emotions to classify each tweet into one of the categories from the wheel. I could use this during sentiment analysis process.

- Using Twitter sentiments to predict the mental health of people during different stages of the covid19 pandemic.
- Nemes L, Kiss A. Social media sentiment analysis based on COVID-19. *Journal of Information and Telecommunication*. 2021;5(1):1-15. doi:10.1080/24751839.2020.1790793
    - Mentions the use of Recurrent Neural network (RNN) model for Deep Learning and the use of Keras and Tensorflow to build the model. Which I consider using to do a sentiment analysis of the tweets.
    - Includes a comparison of results in using RNN and TextBlob. This is kind of important to know which is of better use for me

- Using Twitter sentiments to predict the mental health of people during different stages of the covid19 pandemic.
- Sanders AC, White RC, Severson LS, et al. *Unmasking the Conversation on Masks: Natural Language Processing for Topical Sentiment Analysis of COVID-19 Twitter Discourse*.; 2020:2020.08.28.20183863. doi:10.1101/2020.08.28.20183863
    - Includes a full source code for tweets collection and analysis pipeline which may be useful for me to refer and learn the way they did it.
    - Includes the filter criteria they used for covid 19 related tweets, this may come in handy for me since I plan to collect tweets with covid related words/phrases.
    - Includes the complete process for their analysis pipeline, which is very helpful for me to refer to while working on my data collection and analysis.

- Using Twitter sentiments to predict the mental health of people during different stages of the covid19 pandemic.
- A Timeline of COVID-19 Developments in 2020. AJMC. Accessed August 25, 2021. https://www.ajmc.com/view/a-timeline-of-covid19-developments-in-2020
    - Includes a full timeline of covid19 developments in 2020.
        - I will be taking out the US related dates from this and using that as my timeline.
        - I will then do twitter analysis to predict people's mental health during these periods.

- Using Twitter sentiments to predict the mental health of people during different stages of the covid19 pandemic
- Alsaeedi A, Khan M. A Study on Sentiment Analysis Techniques of Twitter Data. *International Journal of Advanced Computer Science and Applications*. 2019;10:361-374. doi:10.14569/IJACSA.2019.0100248
    - Talks about different Classification techniques like Naive Bayes, Maximum Entropy and Support Vector machine. Learning about these is helpful for me to choose the correct classifier so that I can classify positive and negative tweets.

- Also talks about using Supervised Machine Learning approaches to analyze twitter sentiments. This is helpful for me to know incase I want to use it for my sentiment analysis.

Annotated Bibliography for Pitch 2

- Social media sentiments to predict the covid situation and vaccine rollout in different countries
- Mathieu E, Ritchie H, Ortiz-Ospina E, et al. A global database of COVID-19 vaccinations. *Nat Hum Behav*. 2021;5(7):947-953. doi:10.1038/s41562-021-01122-8

    - Includes Covid-19 vaccination dataset that includes data on the total number of vaccinations administered, first and second doses administered, daily vaccination rates and population adjusted coverage for all countries. (169 countries). This dataset is regularly updated.
        - I could use this to check if my predictions are correct or not.

- Social media sentiments to predict the covid situation and vaccine rollout in different countries
- Nemes L, Kiss A. Social media sentiment analysis based on COVID-19. *Journal of Information and Telecommunication*. 2021;5(1):1-15. doi:10.1080/24751839.2020.1790793
    - Mentions the use of Recurrent Neural network (RNN) model for Deep Learning and the use of Keras and Tensorflow to build the model. Which I consider using to do a sentiment analysis of the tweets.
    - Includes a comparison of results in using RNN and TextBlob. This is kind of important to know which is of better use for me

- Social media sentiments to predict the covid situation and vaccine rollout in different countries
- Dubey AD. *Twitter Sentiment Analysis during COVID-19 Outbreak*. Social Science Research Network; 2020. doi:10.2139/ssrn.3572023
    - Includes the use of NRC emotion Lexicon with the help of f get_nrc_sentiment function for sentiment analysis and finding out the most common words used in the tweets, which I could use for sentiment analysis for the covid 19 related tweets
    - Shows the visualization of most used tweets of different countries in a word cloud visualization, I could do this with the most common covid related tweets for the 5 countries I pick

- Social media sentiments to predict the covid situation and vaccine rollout in different countries
- Panuganti BA, Jafari A, MacDonald B, DeConde AS. Predicting COVID-19 Incidence Using Anosmia and Other COVID-19 Symptomatology: Preliminary Analysis Using Google and Twitter. *Otolaryngol Head Neck Surg*. 2020;163(3):491-497. doi:10.1177/0194599820932128
    - Includes the use of an analysis platform, Crimson Hexagon, which allows us to review all publicly available tweets filterable by search terms, location and date range.
        - This is super useful for me since I will be looking at tweets from specific countries using specific covid related words.

- Social media sentiments to predict the covid situation and vaccine rollout in different countries
- Hussain A, Tahir A, Hussain Z, et al. Artificial Intelligence–Enabled Analysis of Public Attitudes on Facebook and Twitter Toward COVID-19 Vaccines in the United Kingdom and the United States: Observational Study. *Journal of Medical Internet Research*. 2021;23(4):e26627. doi:10.2196/26627
    - I can use the results of this research to see whether the public have positive or negative sentiment toward vaccines in the UK and US.

    - Since my goal is to predict the covid cases and vaccine rollout according to twitter sentiments it is helpful to know the correlation between vaccine and the sentiments.
    - This research also uses VADER and textblob, so I could refer to this research if I used these tools.

- Social media sentiments to predict the covid situation and vaccine rollout in different countries
- Zhang Q, Yi GY, Chen L-P, He W. Text mining and sentiment analysis of COVID-19 tweets. *arXiv:210615354 [cs, stat]*. Published online June 26, 2021. Accessed August 25, 2021. http://arxiv.org/abs/2106.15354
    - Two of the things this research looks at are people's reaction to covid 19 and the number of daily reported cases and people's reaction to vaccines (in Canada).
        - Their results for this could be very helpful for me to find out the correlation between vaccines and twitter sentiments, or number of daily reported cases and twitter sentiments.
    - Includes the use of snscrape module to scrap the tweet text. Which could be an option for me.
    - Also includes the use of Pandas to clean the data. I am quite comfortable with Pandas, so this could also be an option for me.

- Social media sentiments to predict the covid situation and vaccine rollout in different countries
- Gupta B, Negi M, Vishwakarma K, Rawat G, Badhani P. Study of Twitter Sentiment Analysis using Machine Learning Algorithms on Python. *International Journal of Computer Applications*. 2017;165:29-34. doi:10.5120/ijca2017914022
    - Talks about challenges we might face while doing a twitter sentiment analysis, this is helpful for me to know to improve my efficiency while doing a sentiment analysis.
    - Briefly explains how to Pre-process the tweets. Which I need to know for creating my dataset
    - Includes the use of Natural Language Processing (NLTK) library in python. This maybe useful for me to do sentiment analysis.

- Walks through the whole Twitter sentiment analysis process, which is very useful and helpful for me.