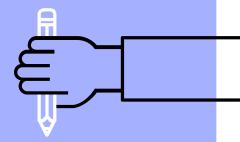
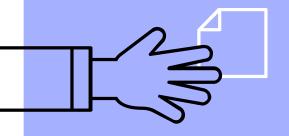


## Overview



#### Dataset:

Covid-19 Tweets for the US from March 2020 - April 2021 IEEE



#### Goal:

Compare rates of depression related tweets, anxiety related tweets, and Covid Infection Rates in New York state

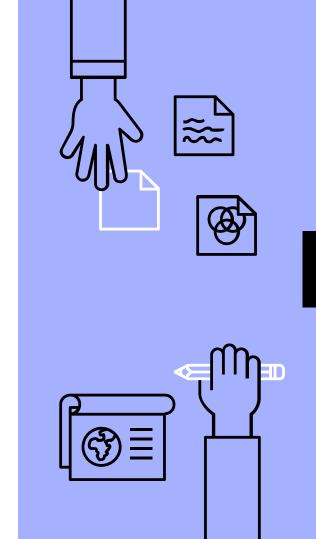
#### Rationale

- We want to compare rates of "depression", "anxiety" related tweets and Covid infection numbers in New York
- Why: It is well known that people's mental health quality declined during the Covid-19 pandemic. We want to explore whether that is reflected in social media.
- Hypothesis: Instances of depression and anxiety related tweets are positively correlated with increasing Covid-19 cases.



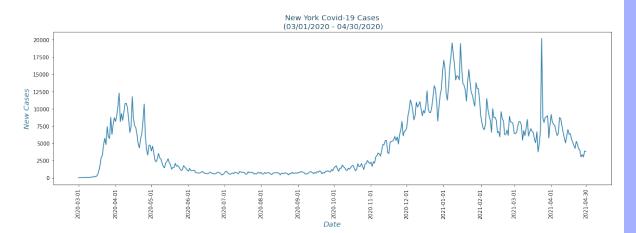
### Method

- Original dataset: two columns (tweet id, sentiment score)
- Twitter API, request info for each Tweet (Tweet content, location, number of retweets, number of likes, datetime)
- Clean Data: NY State, mental-health related
- NLTK (tokenization, stopword removal, lemmanization)
- ldentify sentiments through depression keywords
- Compare sentiments to COVID-19 cases
- Statistical Tests (Granger Causality)

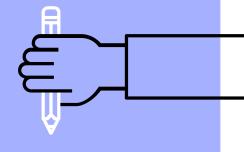


## Results

No results yet; testing our hypothesis through the methods mentioned previously







# Questions?

