

Scrape Method

For my scraping method I used the non-API method to scrape using snsrape. The key words I used are to find tweets were, #VaccinesWork to get pro vaccination tweets and #NoVaxMandates for anti-vax tweets which were all added to their own JSON file.

Pre-Proccessing

After scraping 300 tweets from each hashtag I used NLTK which is a Natural Language Toolkit to go through every tweet and filter out stop words such as and, if, or, but, etc. I also removed words that started with a punctation to remove hashtags and url's.

Network

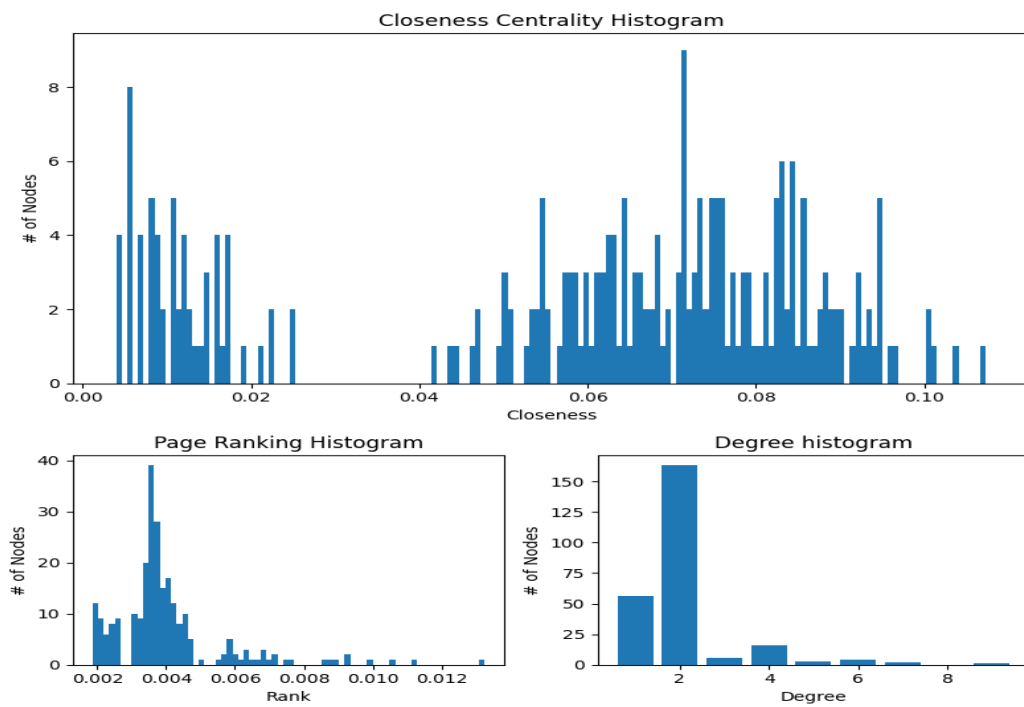
The network I chose to create is the Word Co-occurrence network where every word is a node and the edges are the connection between its neighboring words. The network analysis that was done for both networks were, Closeness Centrality, Degree Distribution, and Page Ranking.

Graph Visualization:

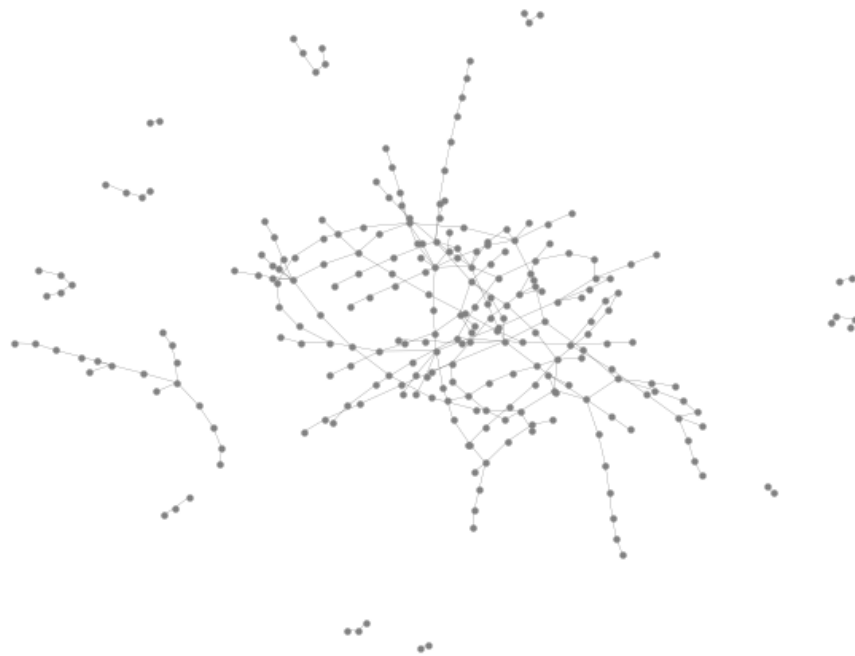
#VaccinesWork - Graph



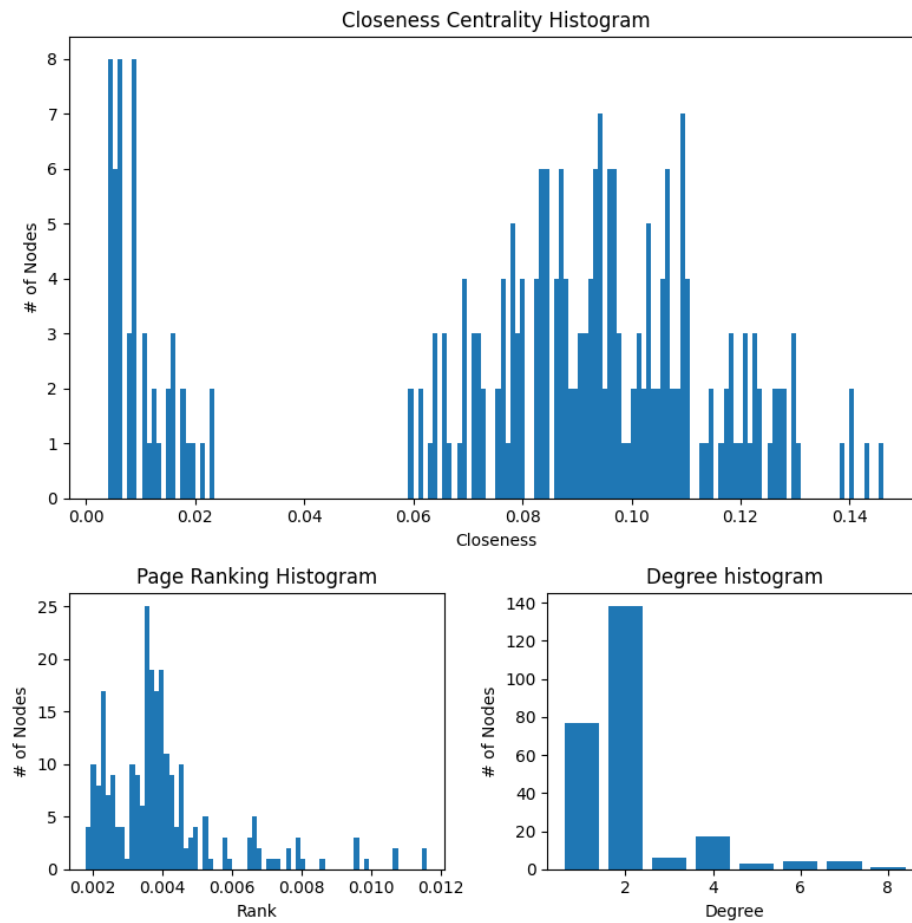
#VaccinesWork - Network Analysis



#NoVaxMandates - Graph



#NoVaxMandates - Network Analysis



Reference Page

Drawing Graph -

<https://networkx.org/documentation/stable/reference/drawing.html>

Create Graph -

<https://networkx.org/documentation/stable/tutorial.html>

Display Histogram -

https://networkx.org/documentation/networkx-2.3/auto_examples/drawing/plot_degree_histogram.html

Twitter Scaping -

<https://medium.com/dataseries/how-to-scrape-millions-of-tweets-using-snsrape-195ee3594721>

How to remove stop words -

<https://www.geeksforgeeks.org/removing-stop-words-nltk-python/>

Imports

<https://docs.python.org/3/library/re.html>

<https://docs.python.org/3/library/json.html?highlight=json#module-json>

<https://www.nltk.org/>

<https://numpy.org/>

<https://pandas.pydata.org/>

<https://networkx.org/>

<https://matplotlib.org/>

<https://github.com/JustAnotherArchivist/snsrape>