

## Understanding Public Perceptions of the ObamaCare Program: A Sentiment Analysis Approach Utilizing Open-Source Data

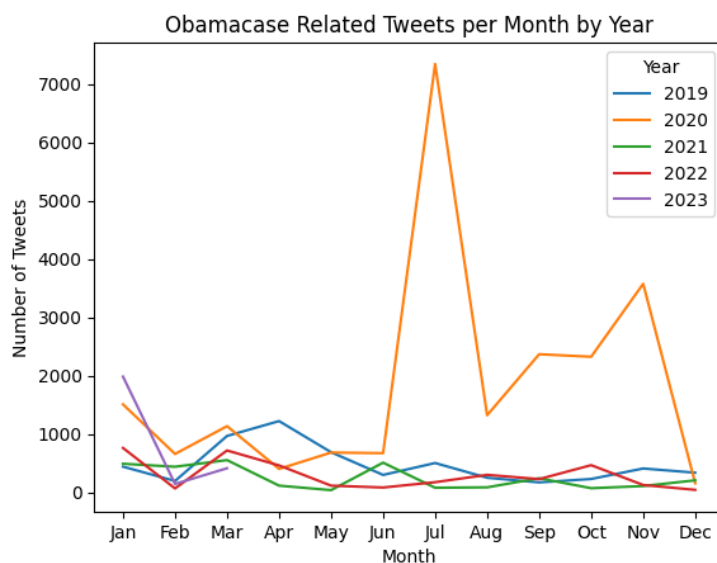
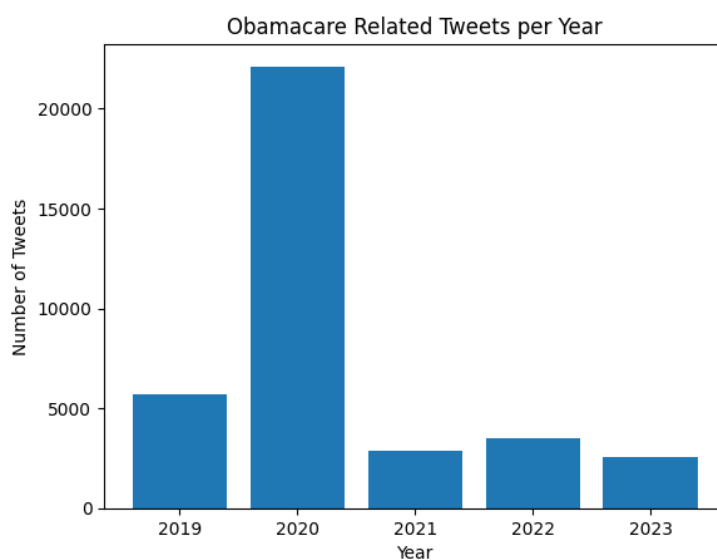
GitHub Repository: [Link](#)

Team: Aïcha Camara, Matt Jackson, Rohit Kandala, Summer Long

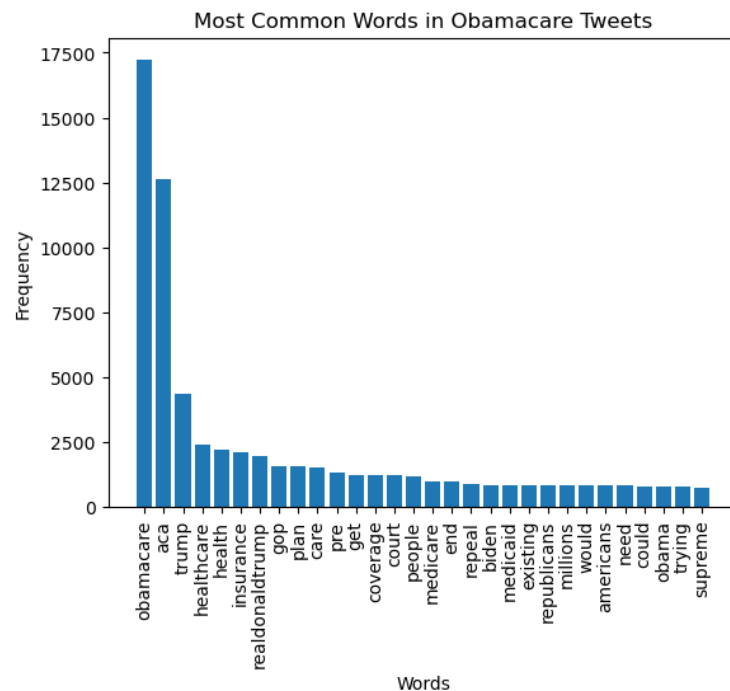
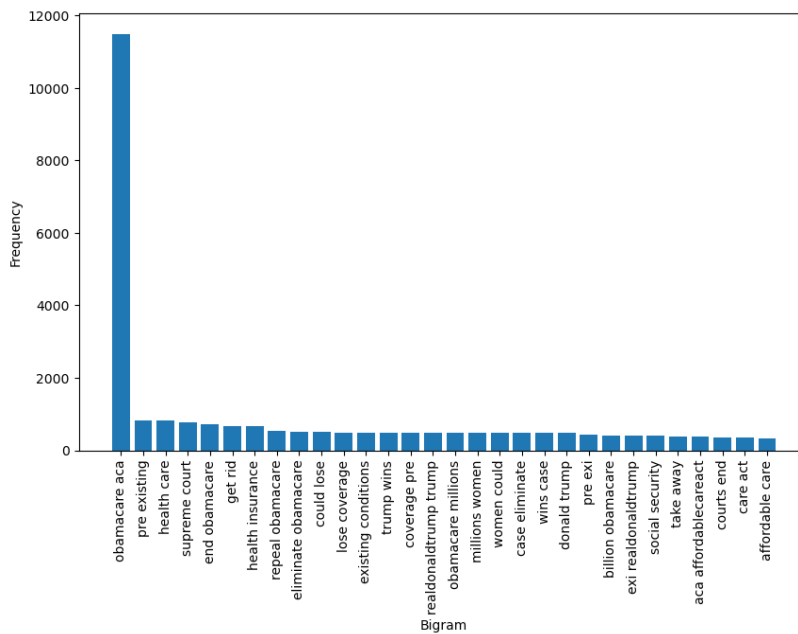
### Twitter Dataset Description & Findings

Aïcha Camara, Rohit Kandala, Summer Long; Exploratory data analysis conducted in the Jupyter Notebook

After performing some exploratory analysis to understand how best to approach categorizing the data, we gained two valuable insights. Amongst the 36,724 tweets, the majority of activity occurred in 2020 and predominantly in the summer. Secondly, and to our surprise, “Obamacare” was often highly correlated with the phrase “ACA”—which is short for the legal name of the bill, “Affordable Care Act”.

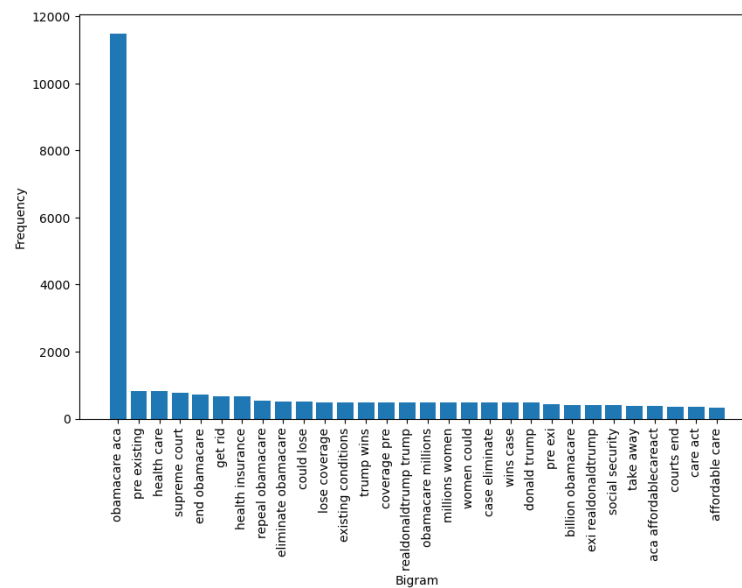
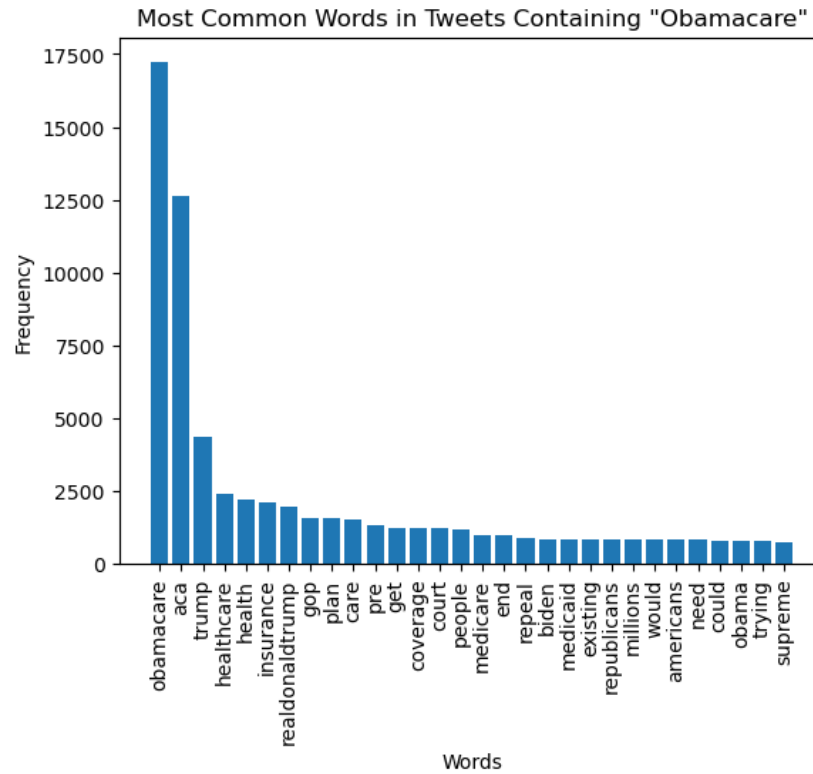


One of our hypotheses was that the two terms would not be strongly correlated. Moreover, we expected that when (“ACA” or “Affordable Care Act”) or “Obamacare” were isolated from each other, that the content and sentiment of the words would change. While we cannot judge the sentiment of this filtering effect (as that is why we are training the classifier on Yelp data), we can make rough observations on the most frequently-occurring words and bigrams. Lastly, we believe that there’s an error with the data; when excluding tweets containing (“ACA” or “Affordable Care Act”) for solely analyzing tweets containing “Obamacare”, the variable’s shape was “0”—implying that there is a perfect intersection. We believe this to be incorrect, and will consult with the TAs and Professor Tan. In the meantime, we filtered to just tweets containing “Obamacare” for that specific analysis—which can be found in the appendix.

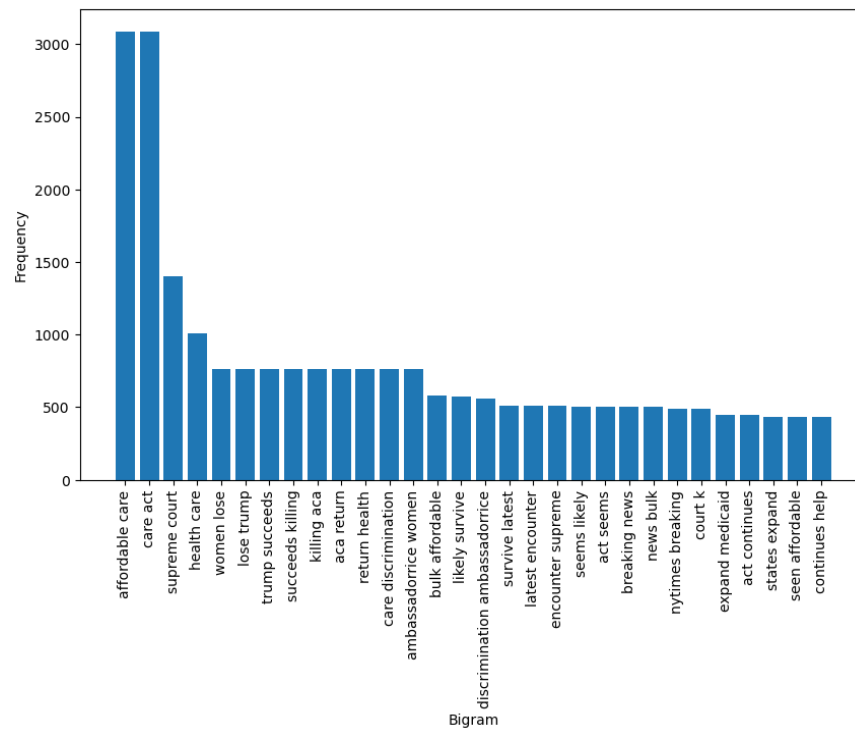
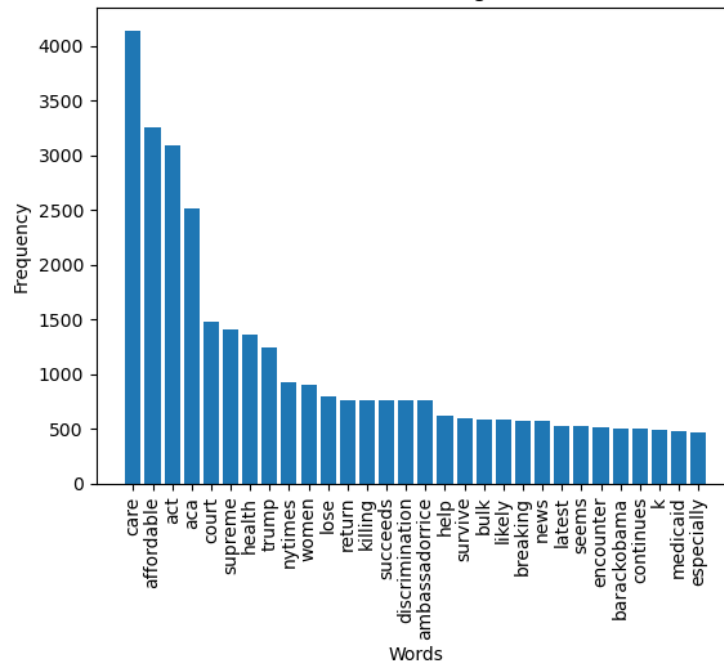


## Twitter Dataset: Appendix

Below are extra graphs we created that isolate tweets that contain just “Obamacare” or (“Affordable Care Act” or “ACA”):



Most Common Words in Tweets Containing "ACA or Affordable Care Act"



## **Yelp Dataset Description & Findings**

Matt Jackson

To be Completed