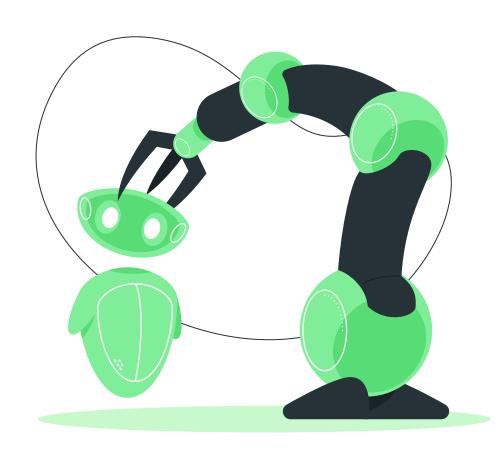
Team UNDEFINED

Meenakshi Balgobin Ashish Venkiah Nikhil Ken Ramessur Yuvraj Seegolam

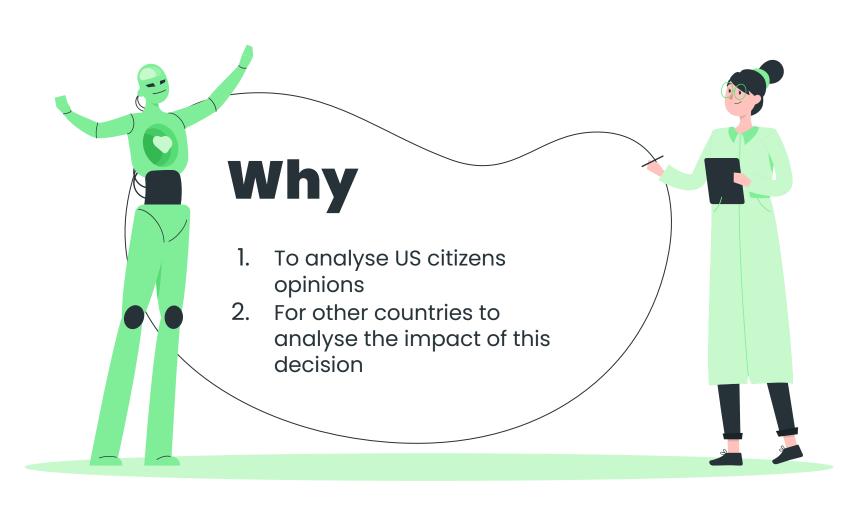


Topic

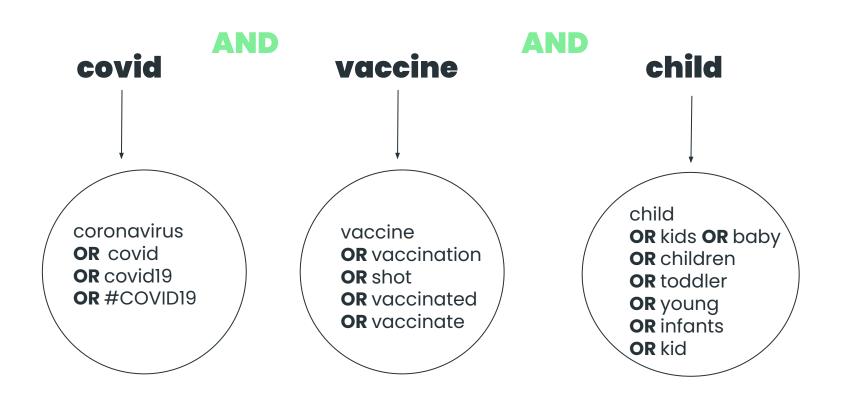
On the the 17th of June 2022, the U.S Food & Drug Administration authorized use of moderna & Pfizer vaccine to children down to 6 months.



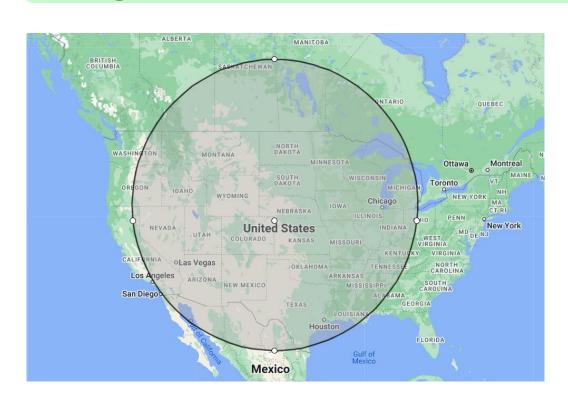
How do people feel about this?



Query Visualization



Target Locations





1600 km United States

Latitude: 39.036356,

Longitude: -101.575207

Data Exploration

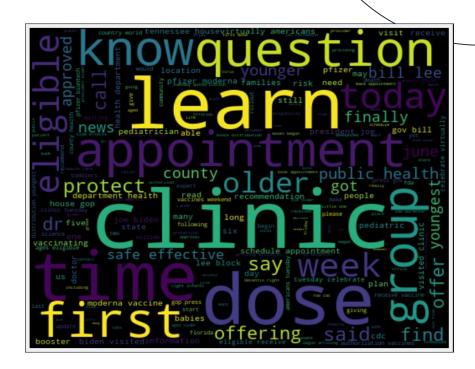
- 1000 tweets
- 7% tweets have emojis
- 114 duplicates found
- 189 characters in average
- 88% tweets have uppercase words



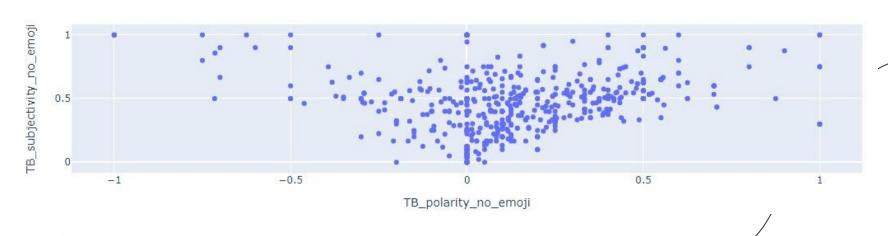
Emoji cloud

Data Pre-Processing

- Remove links, mentions
- Remove 114 duplicates
- Remove stopwords for TextBlob

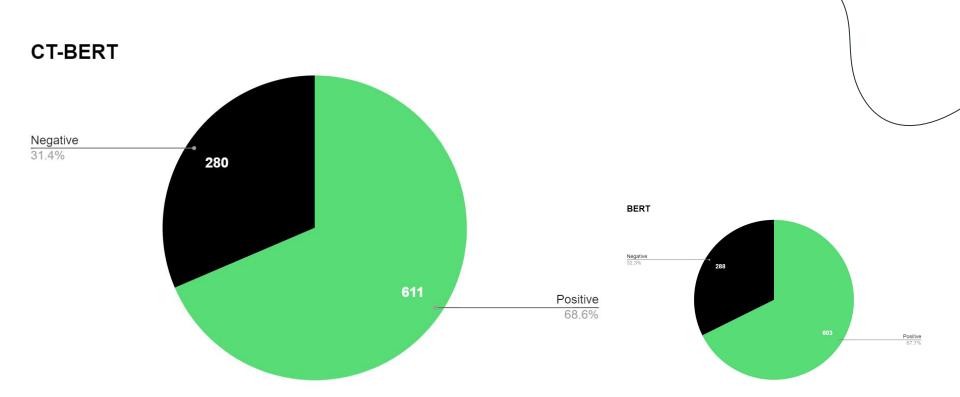


Sentiment Analysis - TextBlob

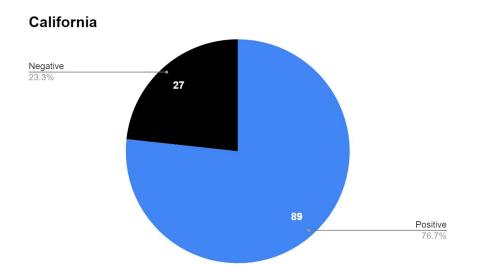


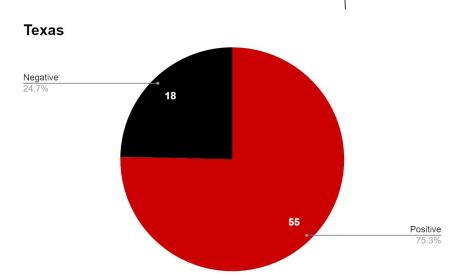
- Most of the tweets are Neutral or Positive
- Most of the tweets are **Factual**

Sentiment Analysis - CT-BERT



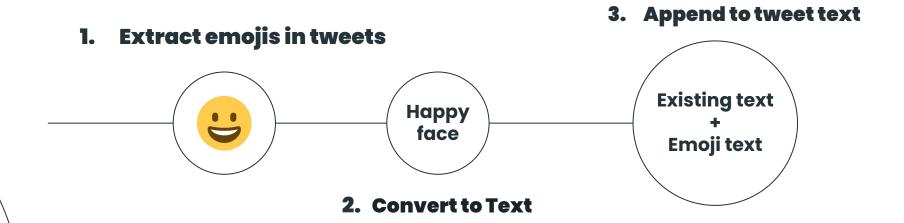
Impact of Politics



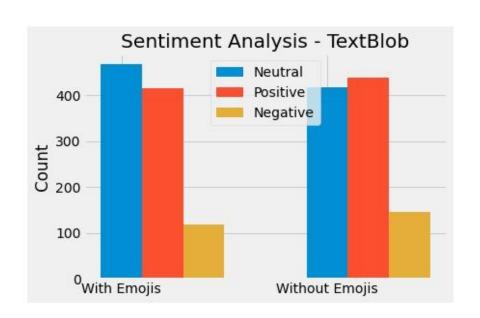


Blue State Red State

Side Quest - Emoji Processing



Side Quest - Impact of Emojis



Emojis increase **Neutrality** of tweets

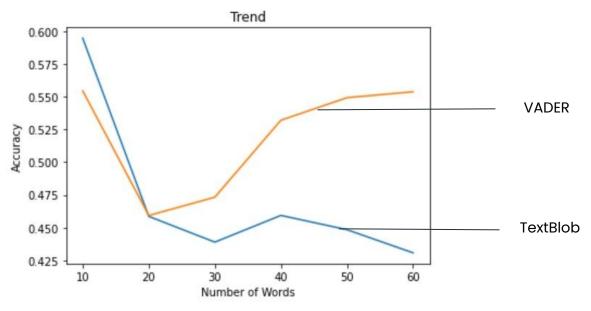
Additional challenges

Q1: For what percentage of tweets did the TextBlob & VADER tools predict correctly the sentiment? Which model performs better?

```
TBtotal = len(df[df['TBCorrect'] == True])
VADERtotal= len(df[df['VADERCorrect'] == True])
TBpercentage = (TBtotal / len(df['TBsentiment'])) * 100
VADERpercentage = (VADERtotal / len(df['VADERsentiment'])) * 100
print(TBpercentage)
                                                                 30
print(VADERpercentage)
47.8363679356822
50.224639394655945
                                                                 20
                                                                 10
     VADER performs slightly better
                     (~2%)
                                                                                TextBlob
                                                                                                                VADER
```

Additional challenges

Q2: For each models, does the number of words (or chars) in a tweet affect the accuracy of the assigned sentiment



Conclusion!



Any Questions?

Team UNDEFINED