

COVID-19 Vaccine Sentiment Analysis

[Dataset](#)



Background

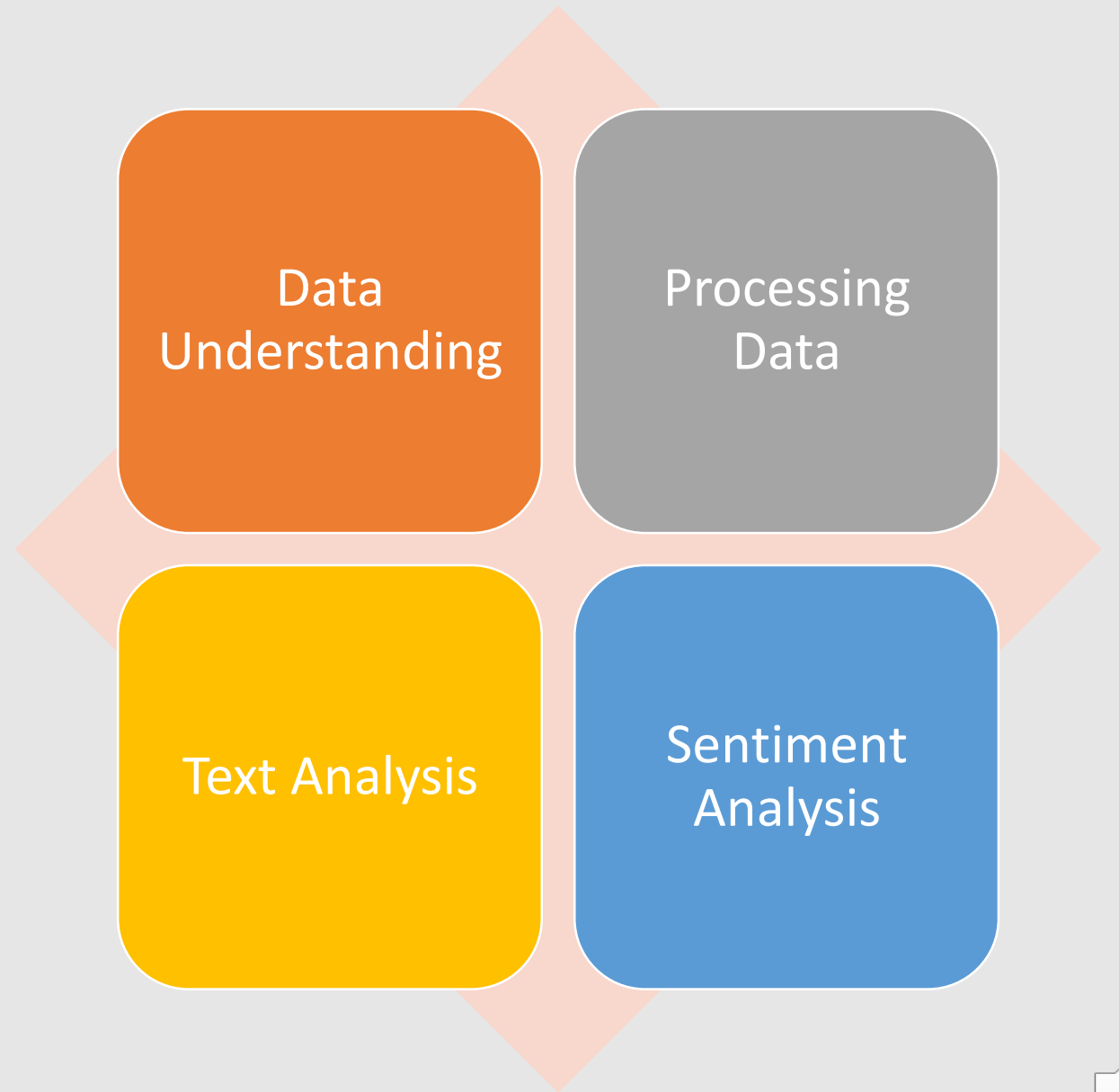
Since COVID-19 has had a major impact on the world, so a vaccine is needed that can minimize the impact of COVID-19. People's sentiments about vaccines are very diverse, so this is very interesting to analyze.

Objective

Knowing people's sentiments about the COVID-19 vaccine which is poured into Twitter social media in the form of tweets.



Outline

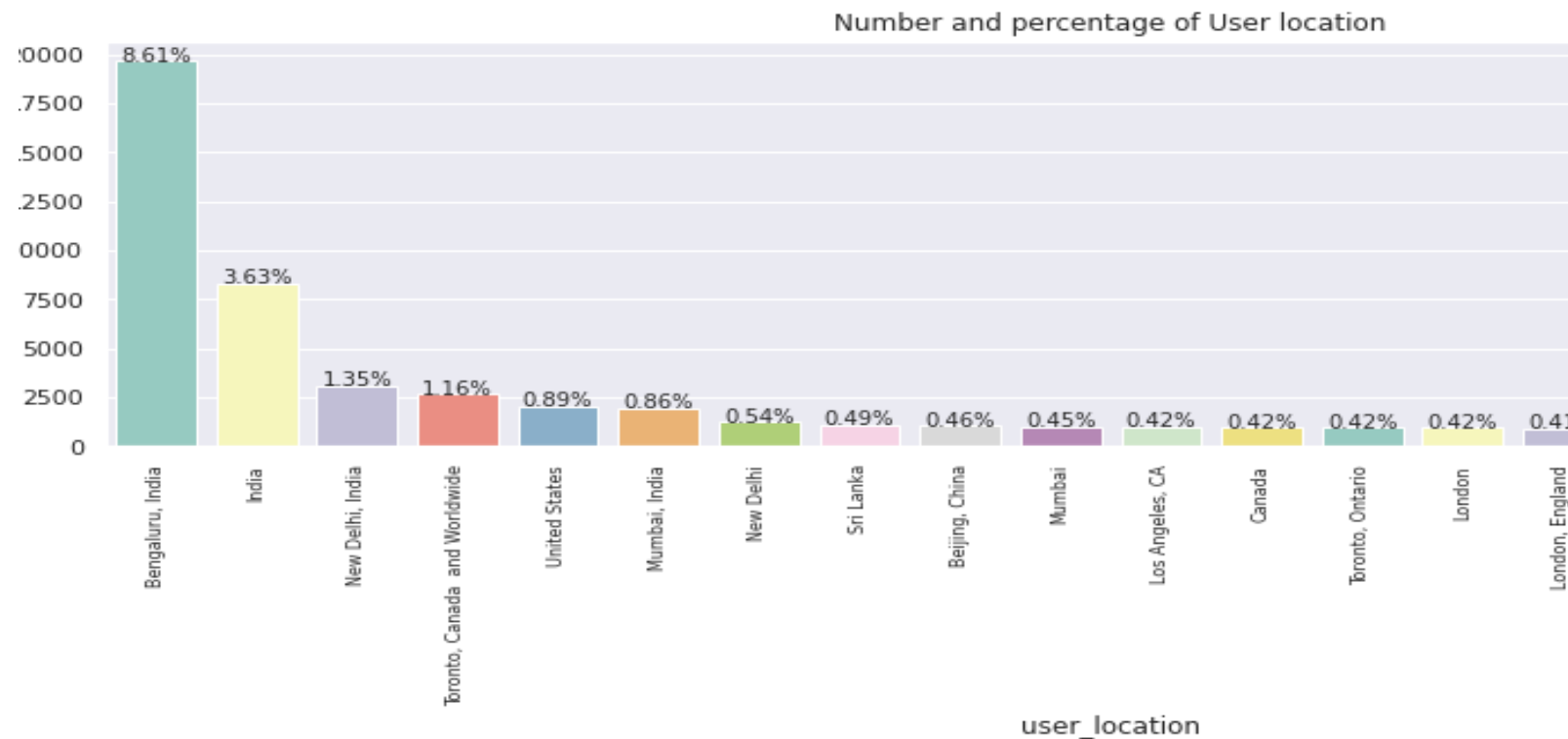


The Question

- Which user location has the most tweets related to the covid19 vaccine?
- What is the most tweeted word?
- What causes tweet in certain time span to be high?



Data Understanding



- Based on the data, India is the most user location to tweet about COVID-19 vaccine with 15.23%



Data Preprocessing

119... <https://t.co/qUd51PLYvA>

duk @MHRAGovuk and #PfizerBioNTech @pfizer for making the #CovidVaccine dream poss...
ur hands, and remain socially distant when possible. #stayhome #StayAtHome #StayAtHome!

PfizerBioNTech #FDA approval Apprentice Style!
pprove the #vaccine or you... <https://t.co/f64cOP5DV6>

etailed article showing up how a well tested #supplychain, with #sharedvisibility will help d... h

accine #AstraZeneca #PfizerBioNTech #Pfizervaccine #PfizerCovidVaccine #Pfizer's COVID-1

so far.

g to worry about then 🤔

<https://t.co/HkGTDM5J3f>

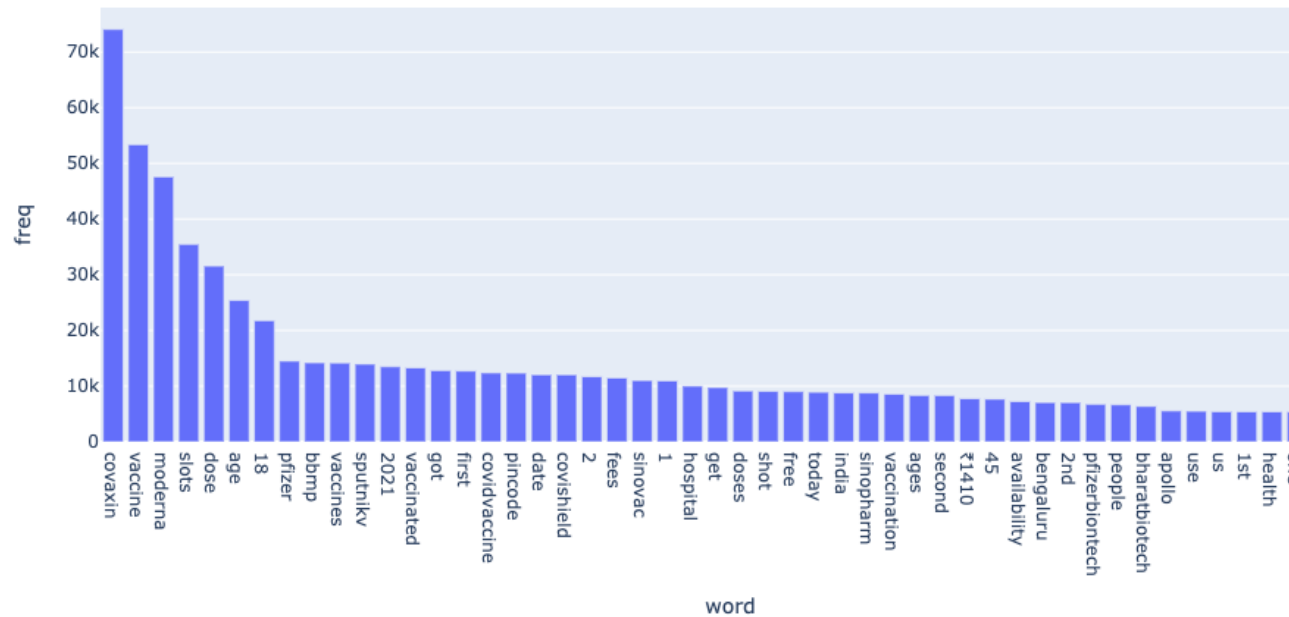
Please don't spread fake news! There is no evidence that these cases are linked to the... <https://t.co/HkGTDM5J3f>

- The data to be analyzed is tweets, so it is necessary to see whether the form of tweets can be directly analyzed.
- It can be seen that in various tweets not all words are made uniform using lowercase letters, there are urls, emojis, and punctuation marks, so here I do data preprocessing.



Text Analysis

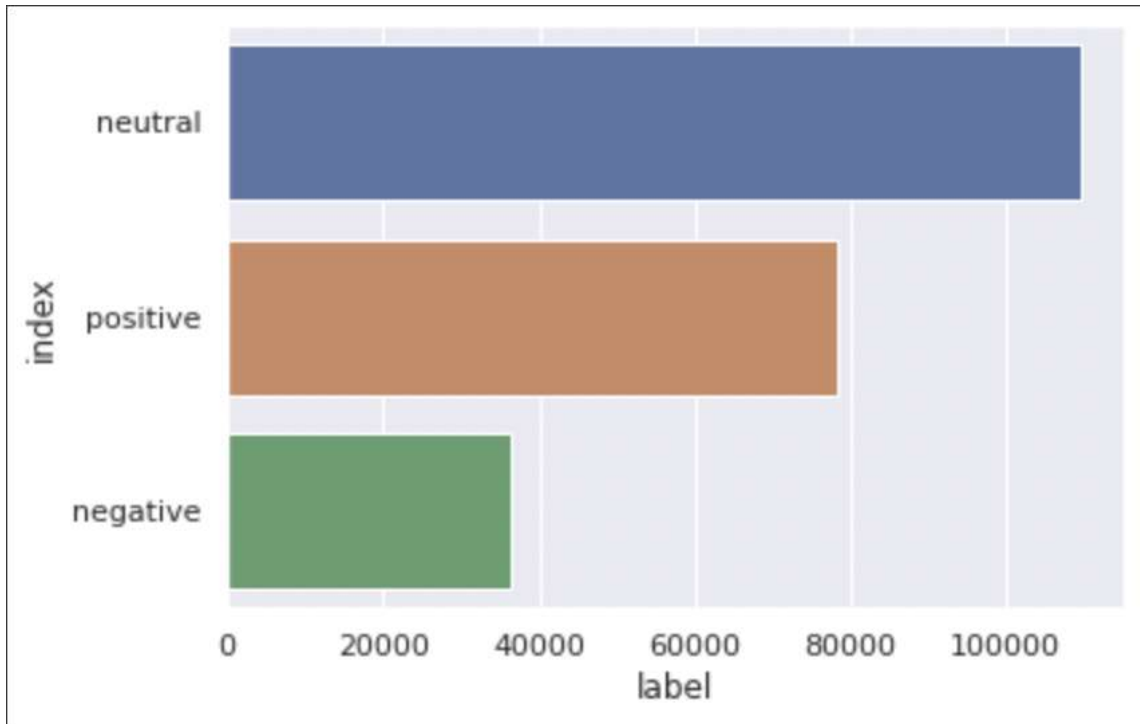
Most Common Words



- Covaxin is the most common word tweeted with 74059 words



Sentiment Analysis

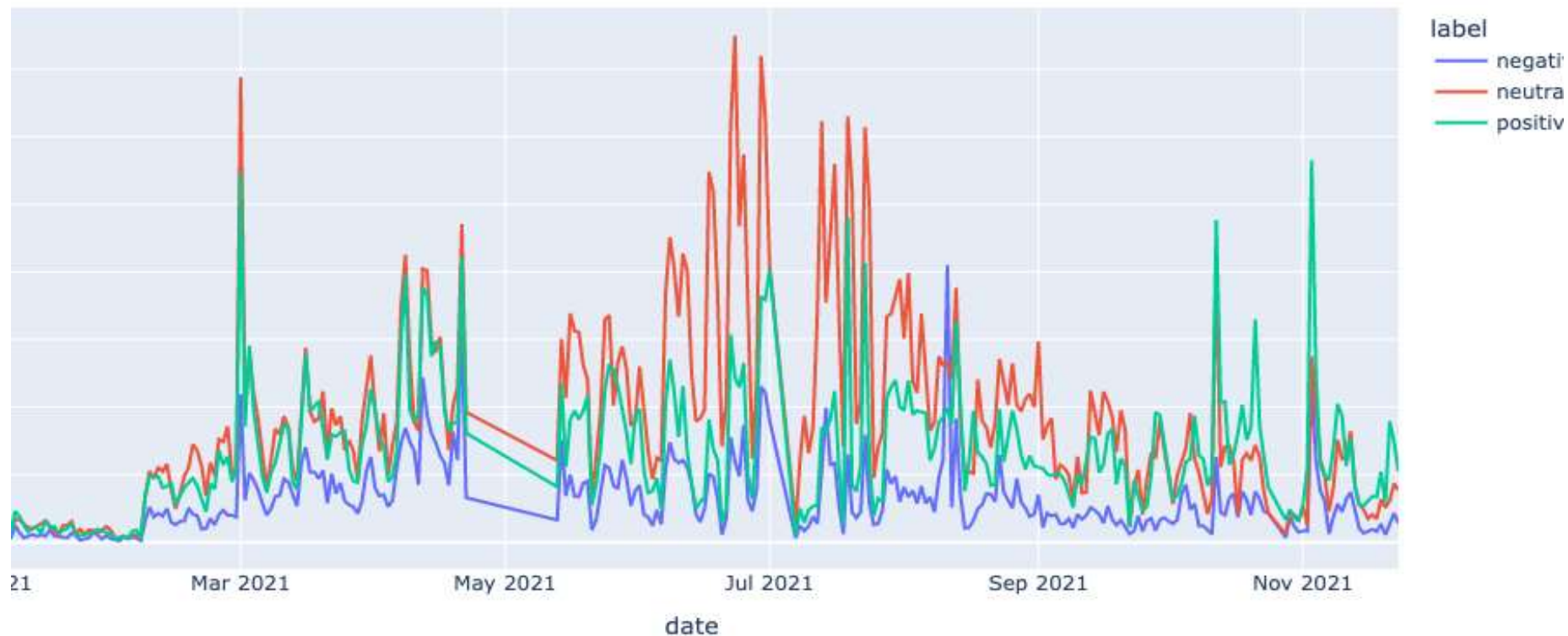


	neg	neu	pos	compound	label
0	0.000	0.787	0.213	0.4019	positive
1	0.527	0.473	0.000	-0.8360	negative
2	0.252	0.748	0.000	-0.4019	negative
3	0.000	0.748	0.252	0.4019	positive
4	0.000	1.000	0.000	0.0000	neutral



Sentiment Analysis

D-19 Vaccines Sentiment Analysis



1 Maret 2021 tweets:

Neutral: 1376

Positive: 1097

Negative: 438



Sentiment Analysis



‘Together, let us make India COVID-19 free!’, tweets PM

Prime Minister Narendra Modi early on Monday took the first shot of Covaxin, the Indian-researched and produced anti-COVID-19 vaccine (produced by Bharat Biotech) at the All India Institute of Medical Sciences (AIIMS) in New Delhi.

Source: <https://www.thehindu.com/news/national/pm-modi-takes-first-jab-of-covaxin-against-covid-19/article33958677.ece>





Thank You

