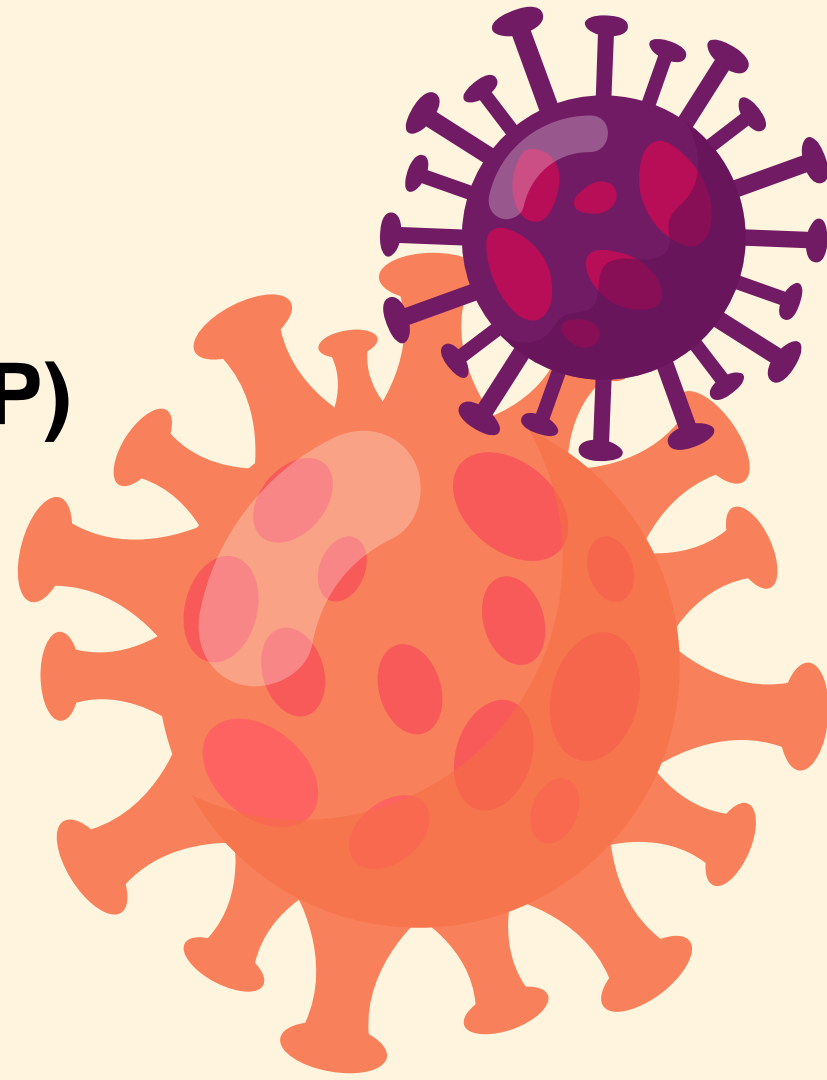




SDAIA
الهيئة السعودية للبيانات
والذكاء الاصطناعي
Saudi Data & AI Authority

Corona virus tweets(NLP) By Text Classification

Presented by:
Aesha Bakheet Aljohani



OUTLINE



introduction

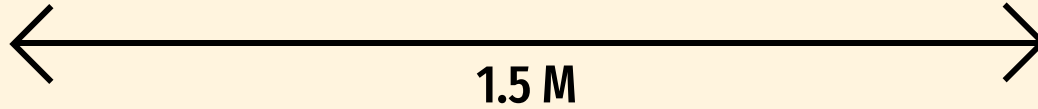
problem
statement

data
collection

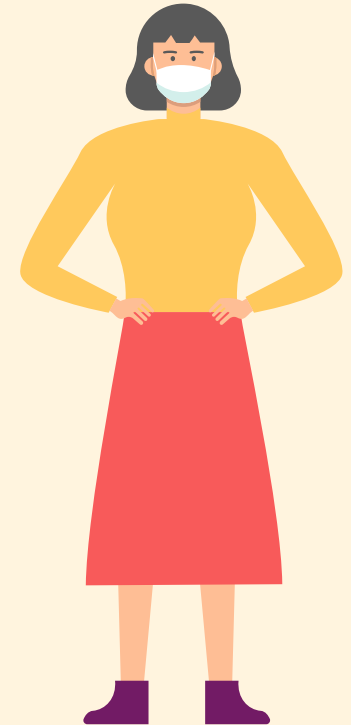
Exploratory
data Analysis

models

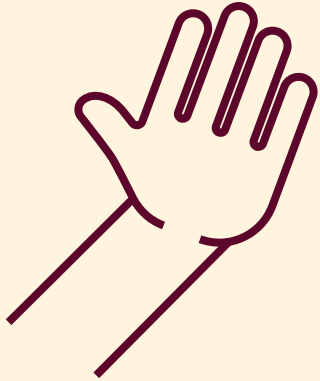
conclusion



1.5 M



introduction



This presentation is about Coronavirus tweets and what they feeling at that time of the CORONA virus.



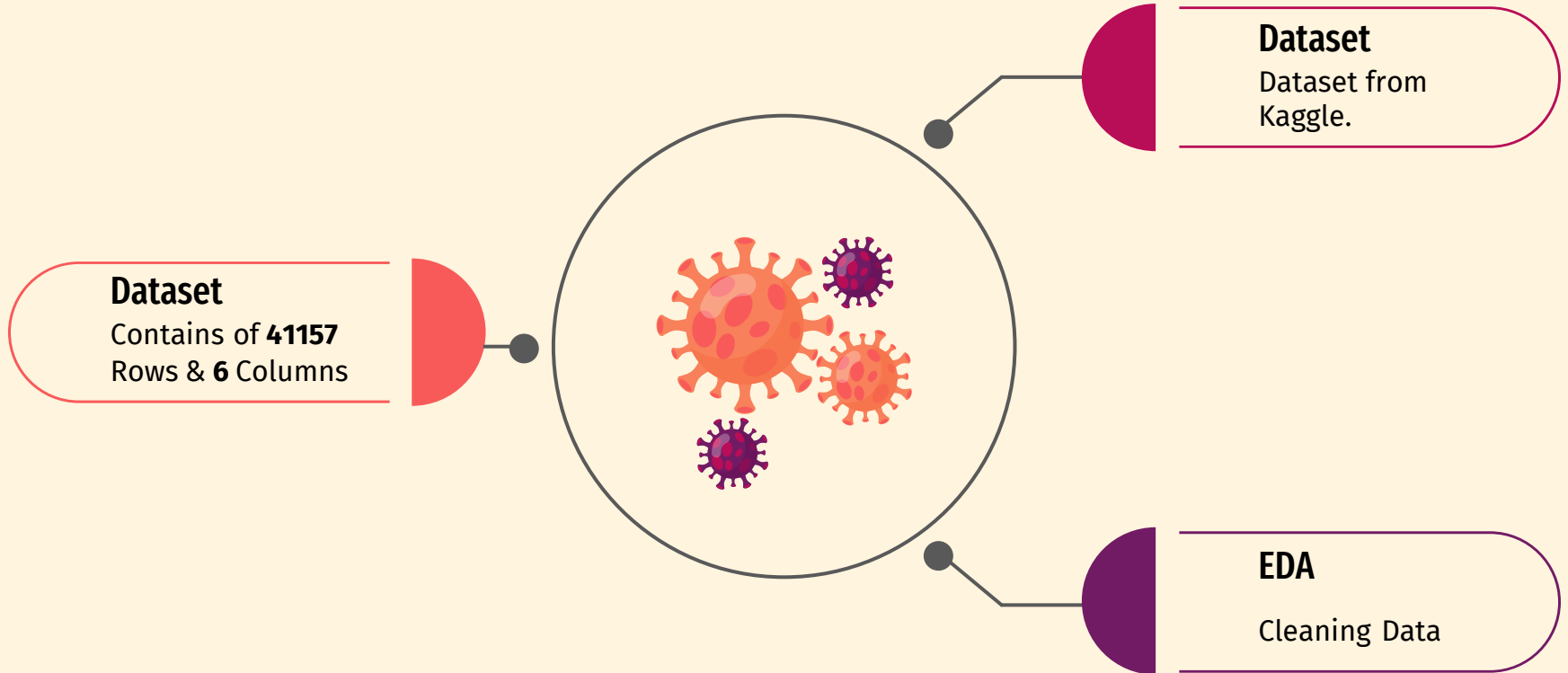
Avoid shaking hands

problem statement

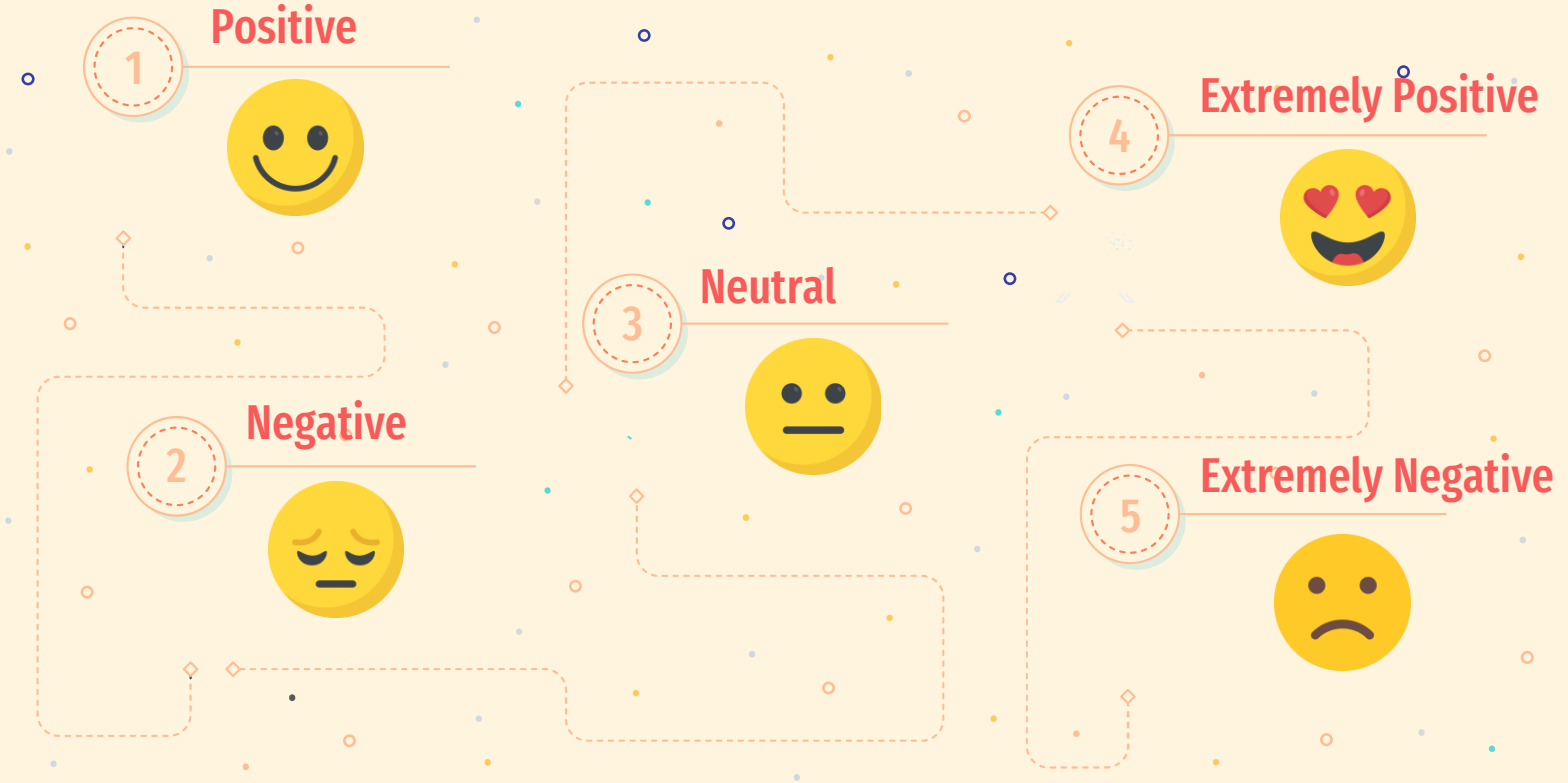


During this curfew, people used the social media such as Twitter to express their feelings and find a way to calm themselves down and to feel that they are connected.

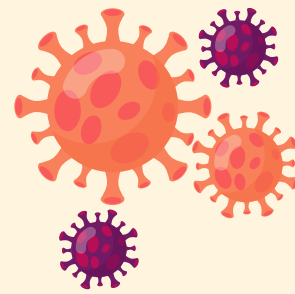
data collection



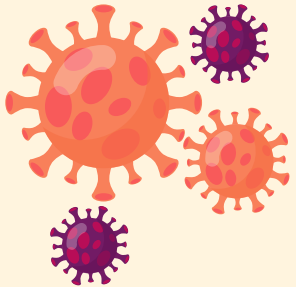
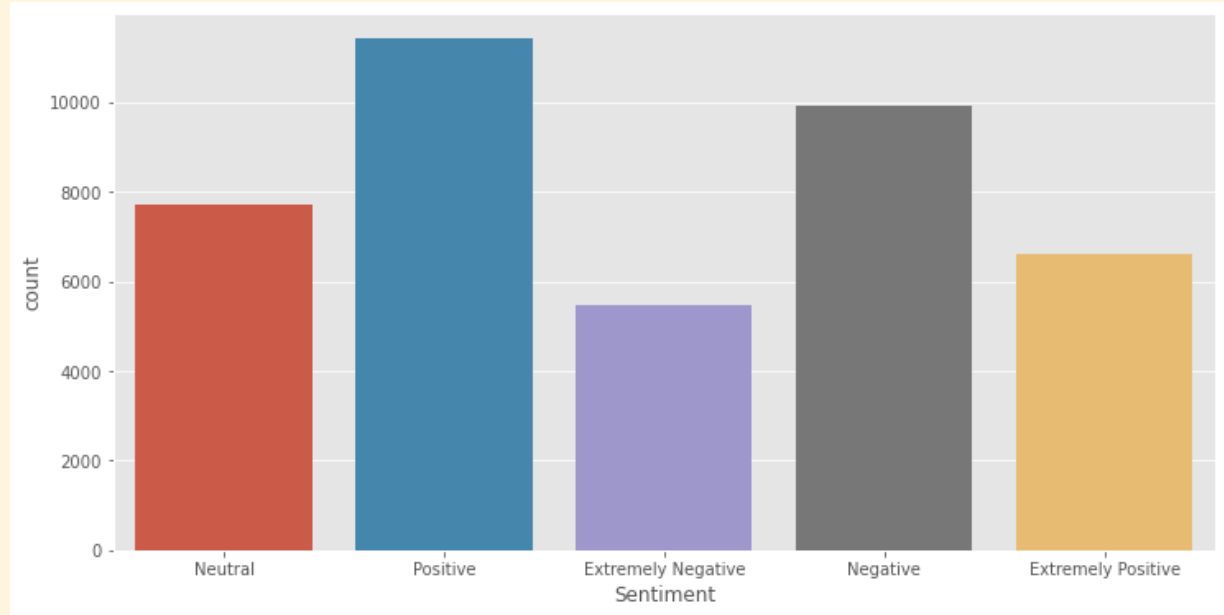
Exploratory data Analysis

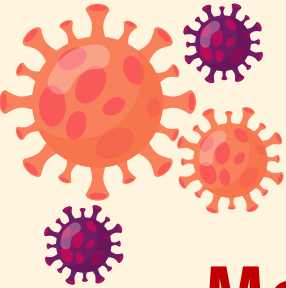


Classifications

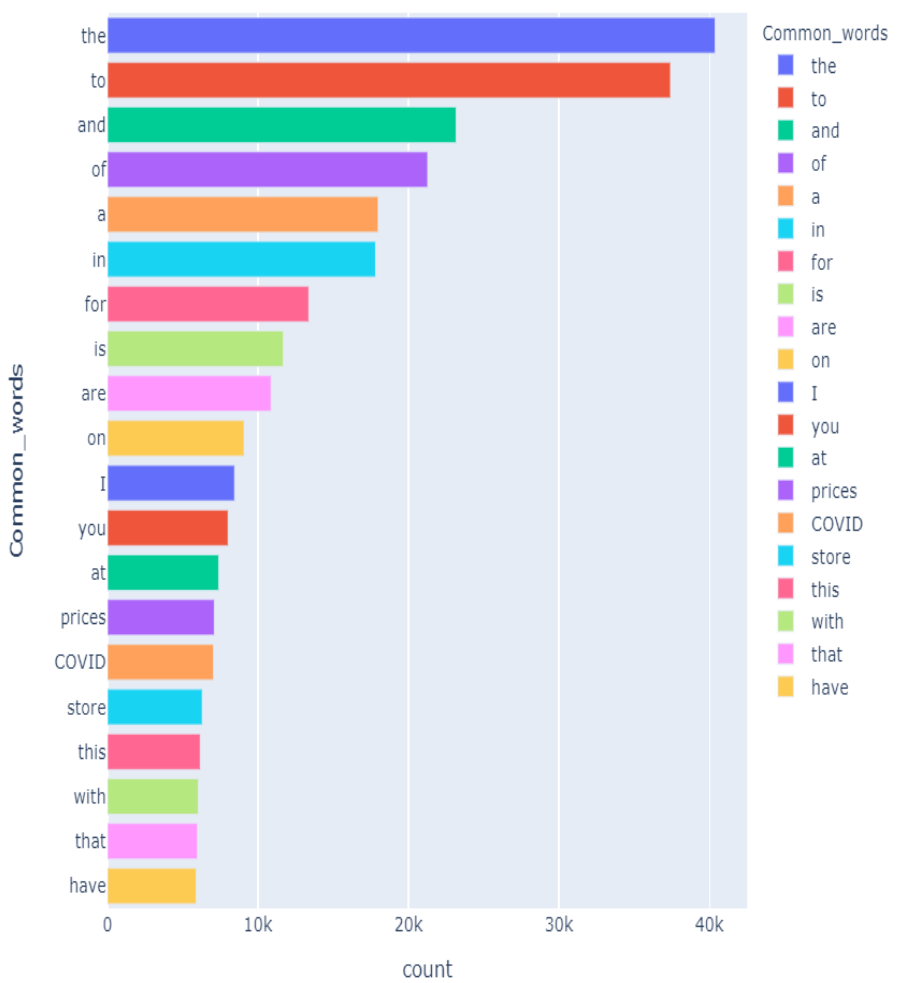


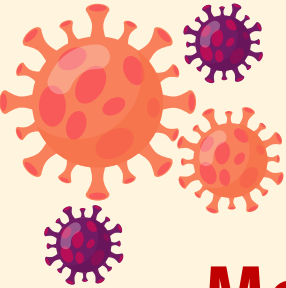
1. Positive.
2. Negative.
3. Neutral.
4. Extremely Positive.
5. Extremely Negative.



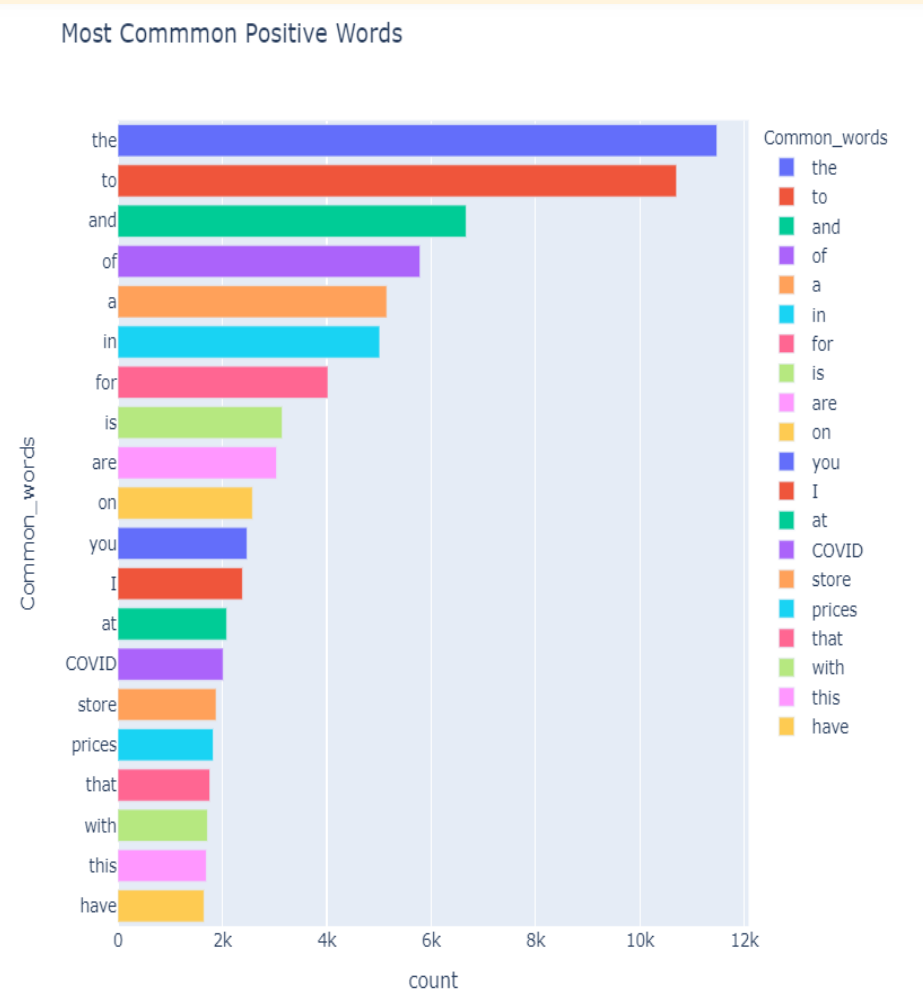


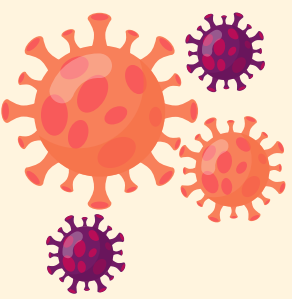
Most common words for all tweets:





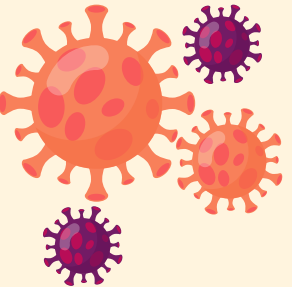
Most common Positive words:





Most common Negative words:

Tree Of Most Common Negative Words

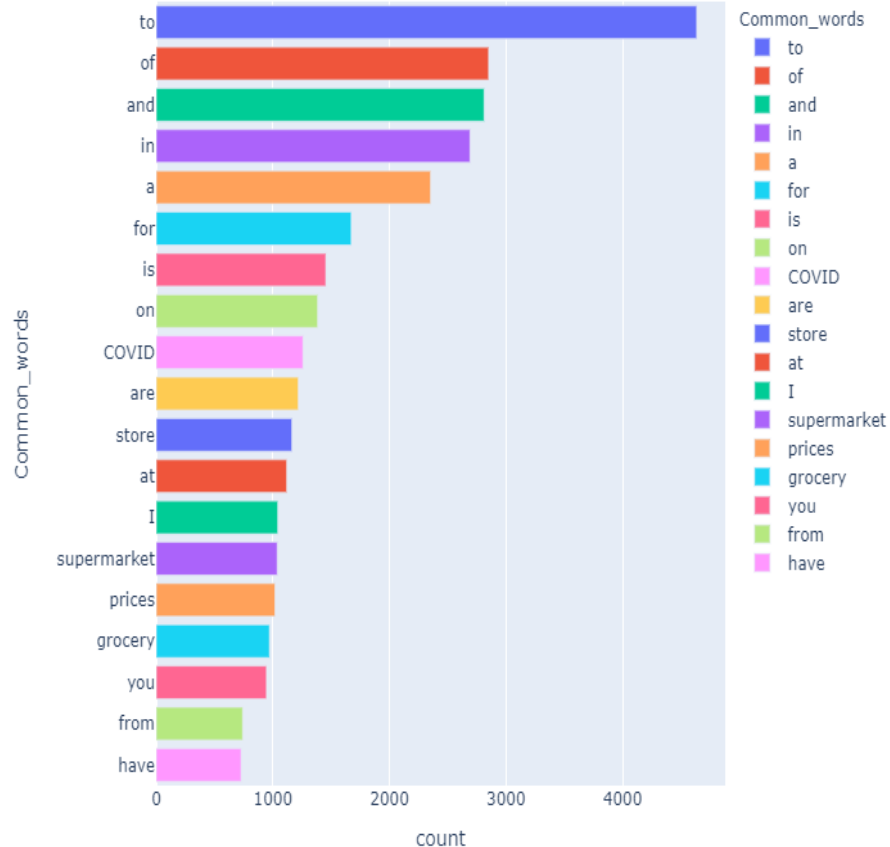


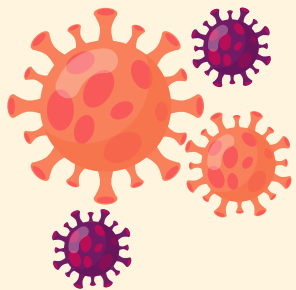


Most common Neutral words:



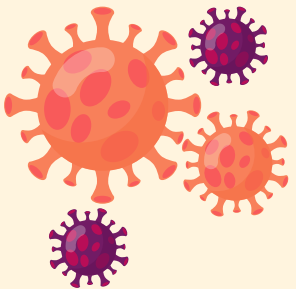
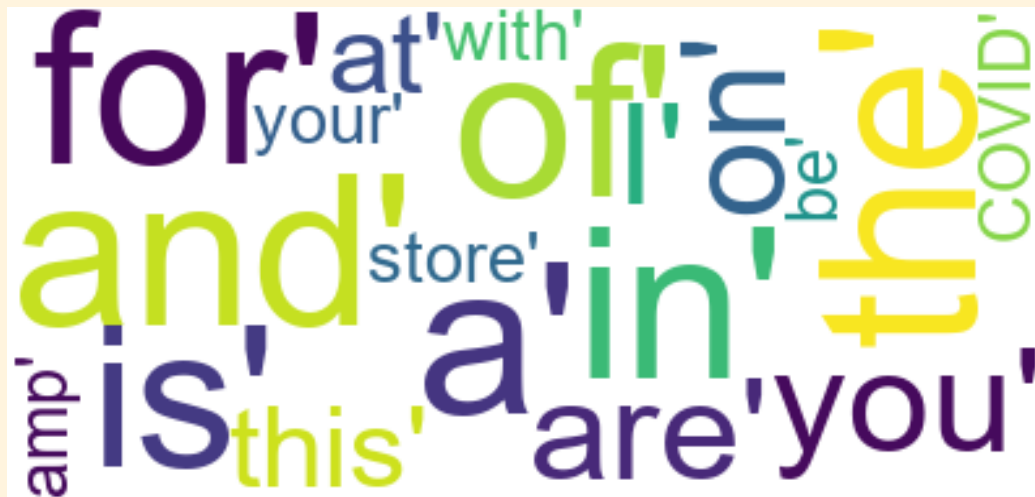
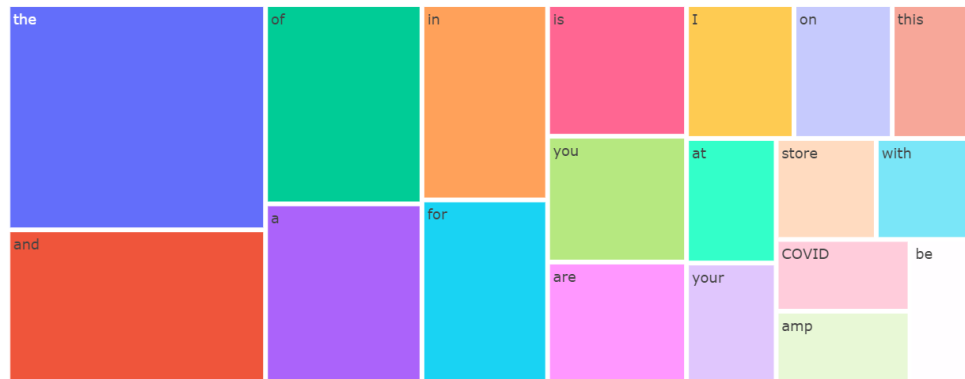
Most Common Neutral Words

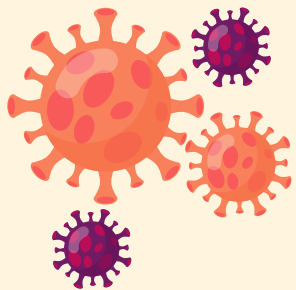




Most common Extremely Positive words:

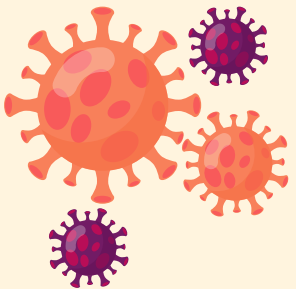
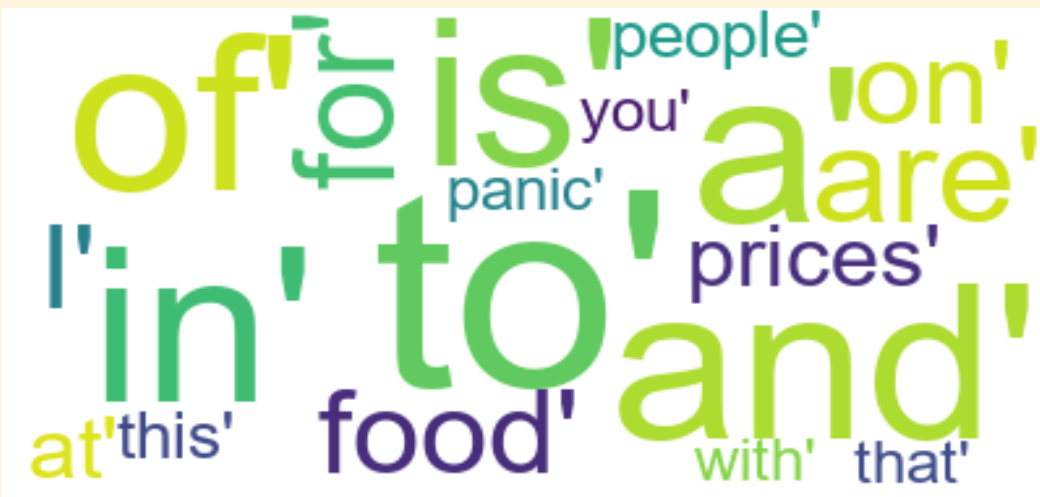
Tree Of Most Common Extremely Positive Words





Most common Extremely Negative words:

Tree Of Most Common Extremely Negative Words



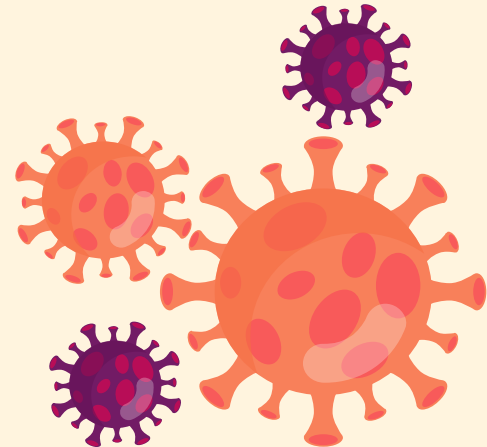
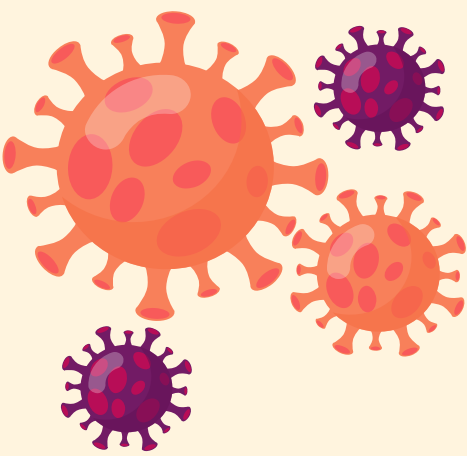
Models Used

Logistic Regression (0.63)

MultinomialNB (0.49)

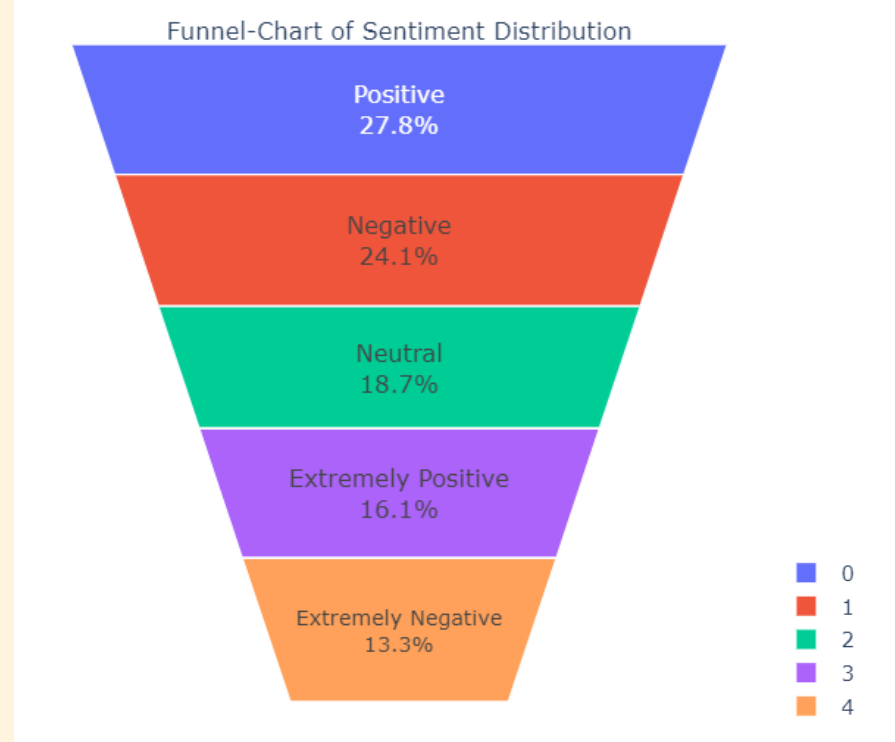
SGDClassifier (0.58)

RidgeClassifier (0.53)



conclusion

The tweets showed support and positive attitudes towards the infection control measures to combat COVID-19



Thank you

&

Please Stay Safe and Follow the instructions of the Ministry of Health



**Avoid shaking
hands**



**Wash your hands
regularly with
soap & water**



**Avoid gatherings and
Crowded closed
areas**



**Always wear
Face-cover/Mask**

Any Questions?

