Sentiment Analysis on Covid-19 tweets

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TEAM-38

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Introduction

The dataset is

• COVID-19 Vaccines Tweets

We try to understand how progress of vaccination programmes around the World (or in a specific country) is received by the public, as reflected in the tweets about all vaccines.

Approach

Tasks to be performed

- Study the subjects of tweets about the vaccine.
- Perform various NLP tasks on the data set.
- To understand relation between public vaccination programs actions and public reception.
- Bring useful insights.

Progress

- Data Preprocessing
- Exploratoty Data Analysis
- Cleaning the text
- Model evaluation

Learnings

- Exploratory Data Analysis
- Natural Language Processing
- Transfer learning in NLP
- Support vector machine(SVM)
- CountVectoriser
- Hyperparameter tuning
- Naive bayes

Challenges

- Finding best hyperparameters for the model.
- Preprocessing the text.

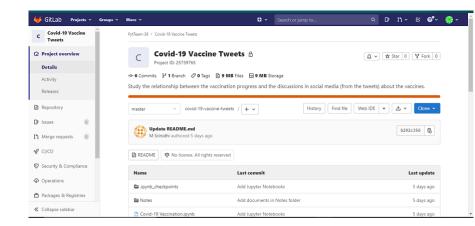
Tech Stack

- Latex
- Google Colaboratory
- Git Lab
- **Libraries:** pandas, numpy, matplotlib, seaborn, nltk, Wordcloud, Sklearn, DateTime, re

References

- Machine Learning Text Processing
- https://sklearn.org/
- https://www.nltk.org/

GIT Repo



Aim for the week

- Improve the accuracy of model.
- Data analysis

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