# Sentiment Analysis on Covid-19 tweets

13<sup>th</sup> April 2021

### TEAM-38

NAME	ROLLNO	BRANCH
Suvidha	19wh1a0579	CSE
Teja Sri	19wh1a1237	IT
Rajani	19wh1a1241	IT
Srinidhi	19wh1a05b3	CSE
Lahari	19wh1a0590	CSE

#### Introduction

Combine the data from two datasets:

- COVID-19 Vaccines Tweets and
- COVID-19 World Vaccination Progress 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
- ULMFiT Approach

## Learnings

- Exploratory Data Analysis
- Natural Language Processing
- Transfer learning in NLP

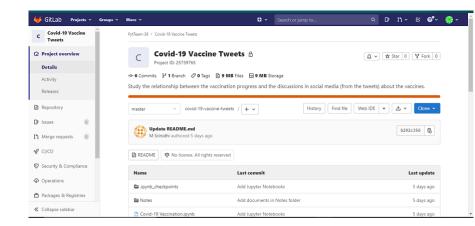
#### Tech Stack

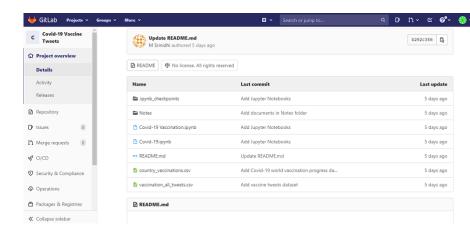
- Tex Maker
- Google Colaboratory
- Git Lab
- **Libraries:** pandas, numpy, matplotlib, seaborn, nltk, TextBlob, Wordcloud, PyTorch, Tranformers, fastai

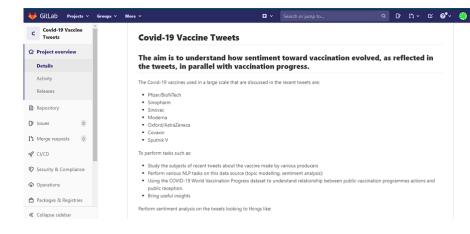
#### References

- https://analyticsindiamag.com/top-8pre-trained-nlp-models-developersmust-know/
- https://pytorch.org/
- https://www.fast.ai/

## GIT Repo







#### Aim for the week

- Fine-tune the language model
- Insights on Covid-19 vaccination progress.

## TEAM-38

