**Capstone Project Submission**

**Corona-Virus Tweet Analysis**

**Introduction:**

The respiratory infections caused by human respiratory viruses are among the most prevalent viral illnesses that affect people (RVs) The influenza virus, also known as the "flu," is the most well-known type of respiratory viral infection and accounts for between 250,000 and 500,000 fatalities annually globally. The H1N1 virus is its most well-known variety. The corona virus is one of the virus families that cause respiratory illnesses. It infects the epithelial cells of the respiratory tract in humans, frequently going undetected but occasionally being fatal. The Middle East Respiratory Syndrome (MERS), severe acute respiratory syndrome (SARS), and currently Corona virus Disease are the most well-known corona virus varieties (COVID-19).

In the middle of December 2019, the first cases of people exhibiting respiratory sickness brought on by the corona virus were reported. The Wuhan Health Commission in the Chinese city of Wuhan revealed data on cases of atypical pneumonia affecting patients who came from a neighborhood market on December 31, 2019. Outside of China, more than 4500 cases and more than 60 fatalities associated with COVID-19 had been confirmed by late February 2020. On March 11, 2020, approximately 118,000 people were infected in 114 countries and 4,291 deaths had been confirmed, due to these alarming levels of severity and spread of corona virus the World Health Organization (WHO) declared the COVID-19 disease as a pandemic.

**Problem Statement:**

The diseases that currently affect the world, especially which are classified as pandemic, cause serious problems to the population at all levels: economic, emotional, status, planning, politics, etc., in addition to the complexity of traditions, ethics, individual psychology and social behaviour of people. Therefore, it is required and necessary a people's attitudes analysis when adverse situations arise Identifying people's reaction to this threat can provide important information on how society behaves and reacts to unwanted and unexpected situations, which can be positive or negative, currently the Internet and social networks have become powerful tools to access people’s opinions and comments on various topics

The main objective is to make a predictive model, which could help in predicting the Sentiment of a tweets.

**Conclusion:**

This model focuses on analysing how individuals are responding to the pandemic, taking into account that the COVID-19 disease is a global health issue that has impacted most countries' economies. The model's major objective is to determine, using machine learning algorithms and NLP approaches, if the public's sentiment is favourable or negative. Although the analysis discovered a variety of opinions, it appears that people generally continue to have a positive attitude toward the pandemic. The only month in which negative thoughts predominated was January, and the month in which the COVID-19 disease was declared a pandemic and many countries began to implement care measures and safety protocols is March, which also happens to be the month in which positive thoughts began to increase. In conclusion, 62% of users demonstrated

**Contributor**

* **Abhishek Patil (** [PABHIVED@GMAIL.COM](mailto:PABHIVED@GMAIL.COM) )

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| **Please Please paste the GitHub Repo link.** |
| GitHub Link: https://github.com/AbhishekPatil98/Covid-19-Tweet-Analysis/tree/main |