**Capstone Project Submission**

**Corona-Virus Tweet Analysis**

**Introduction:**

Among the most common viral infections that affect humans are the respiratory infections, which are caused by Human Respiratory Viruses (RVs) The best-known type of respiratory viral infection is the influenza or "flu", and every year causes between 250,000 and 500,000 deaths worldwide, being the H1N1 virus the most well-known variant One of the family of viruses that causes respiratory diseases is the corona virus, which in humans infects the epithelial cells of the respiratory tract, being sometimes unnoticeable, but in some cases deadly, and can even affect other mammals and birds. There are several types of corona viruses, the best-known are The Middle East Respiratory Syndrome (MERS), the Severe Acute Respiratory Syndrome (SARS) and nowadays the Corona virus Disease (COVID-19).

The first cases of people having symptoms of infection in the respiratory tract caused by corona virus occurred in mid-December,2019.On December31,2019, the Wuhan Health Commission published information on cases about atypical pneumonia affecting patients coming from a local market in the city of Wuhan - China . By late February, 2020, more than 4500 cases and more than 60 deaths related to COVID-19 had been confirmed outside of China. 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:**

Taking into account that the COVID-19 disease is global health problem and has affected most countries and their economies, this model focuses on analysing people’s reaction to the pandemic. The main goal of the model is to deduce whether the sentiment of the public opinion is positive or negative by applying machine learning algorithms and NLP techniques. Despite the fact that the analysis found variation of opinions, it seems that people mostly remain positive about the pandemic, January is the only month in which negative thoughts predominated, March is the month when the COVID-19disease was declared as a pandemic and many countries started to apply care measures and safety protocols, which coincides with the rise of positive thoughts. To summarize, 62% of the users showed positive feelings and 38% of the users showed negative feelings.

**Contributor**

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| **Please Please paste the GitHub Repo link.** |
| GitHub Link : <https://github.com/Amit-95/Coronavirus_Tweet_sentiment_analysis.git> |