Predicting the Daily Deaths due to COVID-19

Jasleen Singh

Introduction

Coronavirus disease (COVID-19) is an infectious disease caused by a newly discovered coronavirus in 2019. The virus that causes COVID-19 is mainly transmitted through droplets generated when an infected person coughs, sneezes, or exhales. These droplets are too heavy to hang in the air, and quickly fall on floors or surfaces.

Most people who fall sick with COVID-19 will experience mild to moderate symptoms and recover without special treatment. As of now there is no vaccine or medicine for this disease. Some of the COVID-19 patients dies as their immune system is not strong enough to fight with the disease.

Number of Death cases highly depends upon various factors like number of new cases, hospitals available, immune system of people, lockdown strictness, human development index, cleanliness facilities, Life expectancy and various other factors.

To predict the deaths, this project will be utilising the historical data of COVID-19. To work on this, we will pass the various parameters that will help us to predict the approximate deaths due to COVID-19 and come out with the best possible COVID-19 death predicting model.

Target Audience

1. WHO (World Health Organization)
   By targeting the factors impacting the COVID-19 patient deaths, organization can minimise the deaths cases by taking preventive measures.
2. Country administration
   As death in country directly leads to economy backlash, so Country administration can take preventive measures, educate people and prepare for required hospital facility
3. Citizens
   Citizens can take precautions based on the most impacting parameter which leads to increase in death cases.

Data

Data Source

To address the problem, we need data with details of all the possible factors of deaths of COVID-19 patients. In this project, we will use the data from Github repository by **owid** in CSV format:

Data: https://covid.ourworldindata.org/data/owid-covid-data.csv

Meta-data: https://covid.ourworldindata.org/data/owid-covid-codebook.csv

We have a lot of fields like new cases, stringency index, median age, cardiovascular death rate, smokers, human development index, life expectancy, etc which gives a lot of options to select the best suited fields for our model.