**TIME SERIES FORECAST ANALYSIS OF COVID-19 CASES**

**Topic:**

COVID-19 is caused by a coronavirus called SARS-CoV-2. It was said to have originated in Wuhan, China around Dec, 2019, hence name COVID-19. Due to the nature of virus, it was easily spreading from human to human, and impacted almost all the countries within a few months. It caused devastating casualties across globe, with about 110 Million infected, and 2.4M deaths. There were about 2 phases, where we saw spikes in the overall count.

**Question:**

* Can we predict ahead the infection or casualties rate happening due to COVID-19?
* What are the most contributing factors to the COVID-19 infections as well as casualties?

Strategy/Team work:

**My proposal:** During our first meeting, we decided the below will be the focus points for the project work. And for the strategy to split the work, I propose 2 groups of 2-3 members. Make one group primary and the other group secondary so that we can compare the results to choose the best one, but the onus of delivering the item stays on primary group. Each group should propose a lead from their group for a particular point. This way each member gets a chance to work on all items, if they choose to.

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| **Stage** | **Task** | **Primary group** | **Primary group lead** | **Secondary group** | **Secondary group lead** | **Timeframe** |  |
| **Question formulation** | Come up with addressable questions |  |  |  |  |  |  |
| **Data collection/cleaning** | Provide data sources that are reviewed, cleaned to be eligible for analysis |  |  |  |  |  |  |
| **Exploratory analysis** | Provide stats on all possible factors that are hidden under the data |  |  |  |  |  |  |
| **Hypothesis generation** |  |  |  |  |  |  |  |
| **Literature review** |  |  |  |  |  |  |  |
| **Model Building** | Build a primary model as well as secondary model for comparison |  |  |  |  |  |  |
| **Result Analysis** |  |  |  |  |  |  |  |
| **Journal presentation** |  |  |  |  |  |  |  |

Ref:

<https://www.worldometers.info/coronavirus/>

https://covid.cdc.gov/covid-data-tracker/#datatracker-home