# DEPARTMENT OF INFORMATION TECHNOLOGY B.E. VI SEMESTER (H1 BATCH-1)

**MINI PROJECT-4**

**DATA VISUALIZATION FOR COVID-19**

**ABSTRACT**

**Background**

It has been over a year since the first Coronavirus outbreak came to light and cases are continuing to soar. The SARS-COV-2 virus has wreaked havoc all around the world and has claimed lakhs of lives. The deadly impact of COVID-19 is driving a massive amount of research that aims at understanding the various characteristics of the pandemic. Considerable effort has been devoted to understanding the spread of the disease in different places in the world. The speed with which the disease has spread throughout the world demands agile solutions to understand and estimate the disease progression.

# Goal

This project aims at developing an interactive dashboard with charts surfaced in different formats to offer concise ways to express the pandemic's growth. Interesting plots allow a visual inspection of how serious the pandemic is around the world. The goal is to track and display information on cases and death totals for different countries and states in India - a representation where geographical regions (countries or states) are mapped to colors associated with a measurement for that region (e.g., number of cases). This representation is useful to communicate trends, such as the average daily counts for the past week. Looking at the disease's spread in distinct places, but with similar growth patterns, can be useful to predict behaviors. Since the pandemic is at different stages in the world, the user can align the time-series of data by a given threshold the series passes (e.g., after 100 cases). This representation is useful to observe when different locations passed through specific checkpoints. The project will also concentrate on the major differences between the COVID-19 pandemic and other epidemics like SARS (2003), MERS (2012), Ebola (2014) by comparing their mortality rate, contagiousness, and symptoms. Data Visualization will be used for all the comparison. This research provides a comprehensive understanding of COVID-19 and compares its impact on different regions of the world with the help of Data Visualization and it will also help to derive a better solution for future emergencies.

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