**Covid-19 : Trend of spread of covid with increasing vaccination.**

This project is part of the Knowledge Discovery in Databases (ITCS - 6162) course from University of North Carolina at Charlotte.

**Project Status**: On Progress

**INTRODUCTION:**

**Project Domain:**

Pandemic, Disease(Covid-19)

**Project Proposal:**

Covid-19 is a contagious disease that became a pandemic in 2020 mainly spreading through close contact with the infected person. Our objective here is to do descriptive analysis on a merged daily data of Belgium people for all age groups. Correlations will be examined between positive cases, hospitalizations,vaccinations and death rate. Based on the knowledge, a linear regression model will be used to predict the progression of the disease as vaccinations increase with accuracy.

**Team Members:**

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**Data Resource:**

Data:

<https://data.gov.be/en/dataset/1030d556bc6489a9d1e85994e25d6bd01d53ce6b>

Data Description:

<https://epistat.sciensano.be/COVID19BE_codebook.pdf>

**Research Questions:**

1. **The target population:** General public, Community members, Healthcare workers, and Vulnerable populations can use the analysis made out of this project.
2. **Whether your research is descriptive (EDA) or analytic:** Descriptive Using the regional covid -19 data from Belgium for all age groups, descriptive analysis will be performed on the merged data and a linear regression model would be used to predict the number of positive cases based on the increase in vaccination rate with accuracy.
3. **If the question is original or you are using other research as a base (be sure to give credit):** The analysis that is being carried out is original neither based on any other research nor an enhancement of analysis that is made.
4. **The data that you are using:** The data sets we collected are the unlabelled datasets from **https://www.belgium.be/en** website which has relevant regional daily data from March, 2020 till Sep, 2021 for all the age groups.
5. **Outcome of the Predictive analysis:** The outcome trend is expected to have a decreased number of cases with the increase in vaccination rates.