Capstone Project: Find Best Neighborhood to Fight Pandemic in New York City

## **Business problem**

Right now, New York is one of the worst hit state by COVID-19 in USA. New York city is at the center of the pandemic. The hospitals are already stretched thin with patients overflowing. According to New York Times report and the WHO (at the moment of writing) death toll was 28,134, case count topped 358,099.

I wanted to create something useful which would give some insight on this situation. In this project we are going to determine which neighborhood is best prepared for this pandemic, by finding out the best ratio of hospital beds per person for each neighborhood in this city.

This would not only give insights of the current situation but also help the government to plan further actions. COVID-19 has become a problem not only for US but for whole world. So, these analysis particularly focus on New York City but can further be used to many other cities for analysis or data of beds in a hospital and the changes required as such.

## **Data**

We will be collecting data from following sources:

1. New York City data that contains borough, neighborhoods along with their latitudes and longitudes.

* Data source: [NYC data set](https://cocl.us/new_york_dataset).

1. We are going to get population data from Scraping Wikipedia.

* Data source: Wikipedia page of NYC neighborhood.
* We are going to go through each of the links of neighborhood and find the population of each of them.

1. Hospital information is going to be fetched from foursquare API.

* Data source: foursquare API

1. Hospital bed information is going to be fetched from NYS Health Profile website.

* Data source: NYS Health Profile.