Capstone Project: Battle of the Neighbourhoods (Part 1)

Data Section:

New York City is one of the most populous cities around the world. The world meets here. It is a global hub for businesses, tourism, medical, entertainment and a lot more.

With an estimated 2019 population of 8,336,817 and counting distributed over about 302.6 square miles (784 km^2), New York City is also the most densely populated major city in the United States.

It is evident with time population will increase with a limit on space to accommodate the population. With this high amount of population so closely packed to each other the risk of Road accidents is higher than ever recorded and so is the requirement for multiple Medical facilities across the city to cater all the incidents in a timely manner.

As far our problem is concerned we restrict our analysis to the New York City and restrict our focus on boroughs of New York and work on data for all 5 Boroughs (Manhattan, Bronx, Brooklyn, Queens, Staten Island) of New York City.

To move forward with our visual analysis of accidents prone zones in the past and the spread of hospitals around the city we require data based on various parameters such as:

1. **Accident Location**: The accident locations of the previous incidents in the city along with the detailed street address and the Latitude, Longitude Coordinates to locate the same.
2. **Injuries/Deaths**: The injured and death toll in the accidents across the city by each Accident
3. **Hospitals Location**: The location of various functioning hospitals in the 5 boroughs which can be referred to for the immediate response to the injured in the accidents.

The accident location info and the details of all accidents is available in the "**Motor Vehicles Collisions – Crashes**" dataset available at the below mentioned link.

The link for the New York Motor Vehicles Collisions – Crashes dataset:
https://data.cityofnewyork.us/Public-Safety/Motor-Vehicle-Collisions-Crashes/h9gi-nx95

Along with the above dataset we use Yelp API location data to obtain the Hospitals data to work in our visualization problem and get a well-informed set of visuals.