

# The Battle of the Neighborhoods

## Week 1

### Find the best and safest neighborhood in Vancouver City

#### Data Description:

As per the problem statement, the components that will be helpful for our decision making are:

- Find safest borough as per crime data in Vancouver city
- Find out the common venues
- Selecting the best neighborhood

For this purpose, geographical location of Vancouver city will be used to find the neighborhoods around the borough which is safest and also near to city and in the end, will cluster neighborhoods.

Below is the data which we will be using for our business problem:

- **Section 1:** Will use Kraggle data set of Vancouver Crimes from 2003-2019 which has data related to type of crime, year, month and time.
- **Section 2:** We will use Wikipedia to find the official boroughs in Vancouver city. This borough information will be utilized to map the data and neighborhood will be assigned to its borough.
- **Section 3:** We will create new dataset which will have all these neighborhoods, borough, crime data and the geographical location of neighborhood. This location we can get from Geocoder to explore the neighborhood and can be used to plot on map. We can analyze using these data.
- **Section 4:** We will create new dataset of neighborhoods, borough and common venues. We will use Four Square API for exploring the venues and then we will cluster the neighborhoods and plot in on map using folium.