

## WEEK IV ASSIGNMENT

# **BATTLE OF THE NEIGHBOURHOODS**

### San Francisco restaurants during the pandemic

---

VIVEK K. TIWARI  
July 29, 2020

## **1. Introduction**

### **a. Background**

The ongoing COVID pandemic has affected our lives in a tremendous way. Hygiene has become an essential aspect of our households, businesses and public places.

The pandemic will leave many aspects of our day-to-day lives changed, forever. As restaurants start to reopen – families, couples, and out-goers will have to choose wisely before making a decision to go to place risking themselves getting infected.

### **b. Problem**

As people start going out, they want to choose a place that puts hygiene first and are facilitated with best hygiene practices. We're trying to put forth some of the cleanest restaurants in San Francisco based on the cleanliness of the neighborhood they're situated in.

## **2. Data**

### **a. Sources**

The first dataset to be used will consist of a GeoJSON file outlining the names and boundaries of San Francisco's 41 neighborhood. It's based on the 2019 census data.

Foursquare APIs will be later used to explore each neighborhood's restaurants. Foursquare consists of massive datasets that further inoculate the accurate locations of these restaurants that are to be used for our project today.

Finally, the overall data used to perform the restaurant hygiene analysis is provided by the City of San Francisco and the result of Health Department's inspection program.

Based on the restaurants retrieved from the Foursquare APIs, we will determine the health risks of each cluster that these restaurants will be put in. This data was last updated on July 27<sup>th</sup>, 2020 and is available on the City's web database.