**Battle of Neighborhoods**

Augustin T

**Data**

* **Foursquare**

Foursquare has a global database of 105 million places with 70+ venue attributes and 900+ categories, which are verified by many users and specialists. It provides us with the ability to perform searches based on location, details about the venues, and customer preferences.

* **Public User Files**

Public user files that provide information about the socio-economic drivers will also be key drivers in determining the appropriate location.

* **Python-Folium**

Folium will be used for visualizations as it utilizes the leaflet.js library that has a number of built-in tilesets from OpenStreetMap, Mapbox, and Stamen, and supports custom tile sets with Mapbox or Cloudmade API keys. Folium supports both Image, Video, GeoJSON and TopoJSON overlays.

**Data usage in solving the problem**

For these kinds of problems, ML algorithms could help us in a big way by performing extensive analysis on the Foursquare data points of the two cities in conjunction with the user preferences to uncover the insights and make the decision-making process easier.

K-mean clustering ML algorithm will be used to form the clusters of different neighborhoods in and around the cities. These clusters would be analyzed further to derive the conclusions.