

# Capstone Project – The battle of neighborhood.

## Algorithm

There are many neighborhoods surrounded, so we can find the closest neighborhood around the target by using clustering. From clustering we can see that there are many groups around the target but there are only one group that is bigger than other.

KNN (K- nearest neighbor) is a non-parametric method used for classification and regression. In both cases, the input consists of the  $k$  closest training examples in the feature space. The output depends on whether  $k$ -NN is used for classification or regression

## Data

- 1.) Name of neighborhoods.
- 2.) Post code of the neighborhoods.
- 3.) Position of the neighborhoods form foursquare.

## Library

- 1.) Numpy
- 2.) Scikit learn
- 3.) Pandas
- 4.) Geopy

## Foursquare

**Foursquare** is a social networking service available for common smartphones, including the iPhone, BlackBerry and **Android**-powered phones. To use **Foursquare** on these devices, download the free app. The app's **purpose** is to help you discover and share information about businesses and attractions