

# **Capstone Project – The battle of neighborhood.**

## **Introduction/Business problem**

Many people migrating to many places where is better such as having better facilities, more secure, etc. This project aim to analysis of feature neighborhood as a comparative analysis between neighborhood. The feature including postal code and position of the neighborhood, so this would help people to decide where they should be migrating from clustering.

## **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.

## **Library**

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