

# **THE BATTLE OF NEIGHBORHOODS**

## **(Business Case)**

### **Introduction:**

Numerous individuals relocating to different conditions of Canada require the scan at great lodging costs just as great rating schools for their kids. The ventures intend to make an investigation of highlights for an area as a similar examination between neighborhoods. The highlights incorporate middle house cost and school evaluations, wrongdoing rates, climate conditions, recreational offices. This would help individuals to get the consciousness of the spots before moving to another nation, state, city or spot for their work or to begin another life.

The point of this Project is to help individuals investigate diverse conceivable outcomes and take a superior choice on picking the best neighborhood out of numerous areas in Scarborough city dependent on the circulation of different offices in and around that area.

### **Selection Criteria:**

For the motivations behind this venture, the meaning of a decent neighborhood is one that has an obvious business nearness inside a given network just as:

1. Compare middle lodging costs
2. Compare school evaluations

### **Location:**

Scarborough is a mainstream goal for new workers in Canada to dwell. Subsequently, it is a standout amongst the most differing and multicultural zones in the Greater Toronto Area, being home to different religious gatherings and spots of love. Despite the fact that movement has turned into an interesting issue in the course of recent years with more governments looking for more confinements on foreigners and displaced people, the general pattern of migration into Canada has been one of on the ascent.

### **Foursquare API:**

This venture would utilize Four-square API as its prime information gathering source as it has a database of a great many spots, particularly their places API which gives the capacity to perform area look, area sharing and insights regarding a business.

## **Work Flow:**

Utilizing accreditations of Foursquare API highlights of close by spots of the areas would be mined. Because of HTTP demand confinements, the number of spots per neighborhood parameter would sensibly be set to 100 and the range parameter would be set to 500.

## **Clustering:**

To analyze the likenesses of two urban areas, we chose to investigate neighborhoods, section them, and gathering them into groups to discover comparative neighborhoods in a major city like New York and Toronto. To have the capacity to do that, we have to group information which is a type of unsupervised AI: a k-implies bunching calculation.

## **Libraries:**

Pandas: For making and controlling information outlines

Folium: Python representation library would be utilized to image the areas group dispersion of utilizing intelligent handout map.

SciKit Learn: For bringing in k-implies bunching

JSON: Library to deal with JSON documents

Geopy: To recover Location Data

Requests: Library to deal with HTTP demands

Matplotlib: Python Plotting Module