The Battle of Neighborhoods

A New Restaurant in Vancouver, BC

1. Introduction/Business Problem

Vancouver is a metropolitan city located in British Columbia in Canada. It is considered a dynamic and multicultural city; mainly recognised for its diverse green areas and its great variety of activities for everyone. In Vancouver, people can find a plethora of restaurants that offer various cuisine that goes from chinese to italian or mediterranean.

French cuisine is one of the most popular existing cuisines. Some people consider it to have a complex preparation. Nonetheless, others consider it to be unique and influential due to its ingredients, techniques, and presentation. When thinking of french food, the word 'sophistication' and 'pricey' immediately come to mind, however that is up to the occasion and the menu. In summary, french gastronomy is about the mixture of flavours and textures that one can try in every bite.

Now, combining the two ideas mentioned above, there is a businessperson (stakeholder), who is looking forward to opening a french cuisine restaurant in the city of Vancouver, British Columbia, Canada.

The current project aims to find the most suitable location for a french cuisine restaurant in Vancouver.

2. Data

Vancouver consists of 22 local areas, which are also known as 'Neighbourhoods'.

In the official website of the city of Vancouver, there is a section called "The Open Data Catalogue", which provides access to many datasets in different formats.

From the Open Data Catalogue - "Neighbourhoods" option - the following link is presented:
- https://data.vancouver.ca/datacatalogue/localAreaBoundary.htm

This dataset was downloaded in CSV format.It has the official names of each local area in Vancouver.

The geographic coordinates (latitude and longitude) of each Local Area (Neighbourhood) are going to be obtained by using: from *geopy.geocoders import Nominatim.*

Therefore, one dataset including the names and IDs of each local area, latitude, and longitude, is going to be created.

The Foursquare API is going to be used in order to retrieve information about venues (Name, Latitude, Longitude, and Category) for each Local Area. Then, information about French Restaurants will be shown, so as to see how those venues are distributed throughout Vancouver.