Toronto City Restaurant Analysis

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**Introduction:**

The purpose of this Project is to help people in exploring food cuisine around their neighborhood. It will help people making smart and efficient decision on selecting great food options out of numbers of other neighborhoods in Toronto.

Lots of people are migrating to various states of Canada, so their food preference would be different. They would like to try out different cuisines. Lot of them would like to explore different cuisines or want to try out food from their own country like India, Chinese, Thai , Mexican etc.

This Project aim to create an analysis of food options to search most commonly visited restaurants. It includes all different types of cuisines.

The major purpose of this project, is to suggest all types of food options in the neighborhood in a new city for the person who are shifting there. Different types of cuisine, type of restaurant.

**Data:**

Data Description: Data Link: <https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M>

Scraped data from above link using pandas to collect information about different Borough and Neighborhoods of Toronto city aling with its postal code.

Latitude and Longitude locations were collected from **Geospatial\_Coordinates.csv** for each of the

Postal code.

# Foursquare API Data:

We will need data about different venues in different neighborhoods of that specific borough. In order to gain that information we will use "Foursquare" locational information. Foursquare is a location data provider with information about all manner of venues and events within an area of interest. Such information includes venue names, locations, menus and even photos. As such, the foursquare location platform will be used as the sole data source since all the stated required information can be obtained through the API.

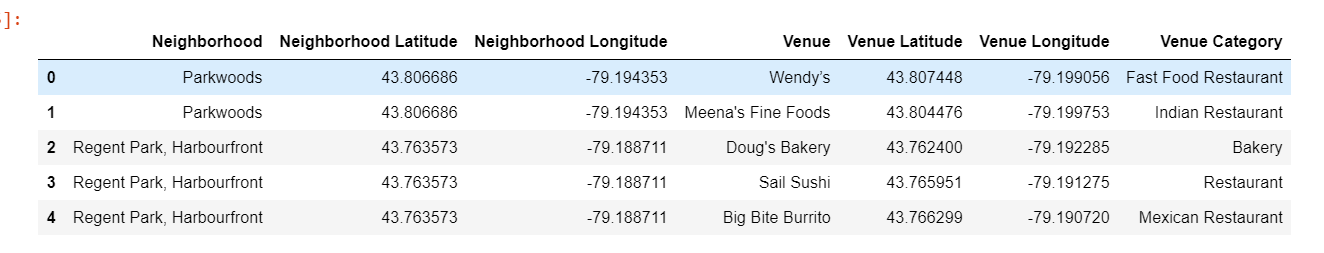
After finding the list of neighborhoods, we then connect to the Foursquare API to gather information about venues inside each and every neighborhood. For each neighborhood, we have chosen the radius to be 500 meter.

The data retrieved from Foursquare contained information of venues within a specified distance of the longitude and latitude of the postcodes. The information obtained per venue as follows:

Neighborhood , Latitude, Longitude ,Venue Name of the venue e.g. the name of a store or restaurant, Venue Latitude, Venue Longitude, Venue Category.

Venue and Venue Category is restricted to include only food related options by passing in query=food in the api

Sample Data :

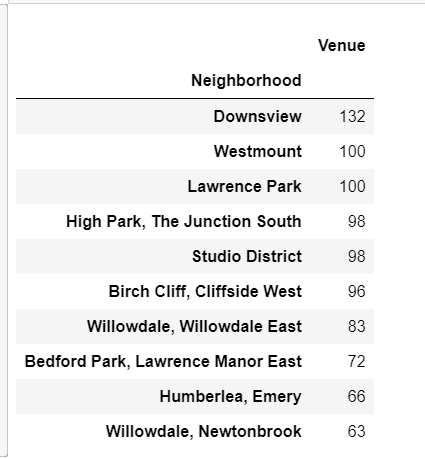


**Methodology:**

Top 10 type of food options count in the neighborhood were found out by doing analysis on the data obtained. Below is the observation :



Top 10 neighborhoods with highest food options were found out by doing analysis on the data obtained. Below is the observation :



Neighborhoods with least number of food options were found out by doing analysis on the data obtained. Below is the observation :



Venue Category with least number of outlets were found out by doing analysis on the data obtained. Below is the observation :

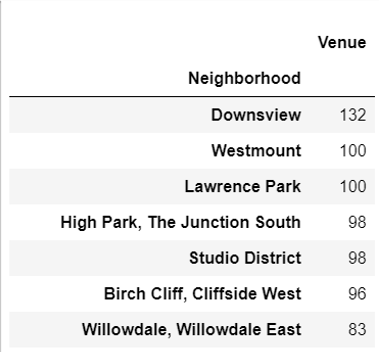


Most common venues were found out for neighborhood with highest venues :



**Results:**

By doing analysis on all the neighborhoods in the city of Toronto, it can be concluded that highest number of options available in terms of different food categories are available in the below neighborhood. Any one looking out to explore different food options can visit any of the below neighborhoods and they would be able to try out numerous food cuisines :



Below neighborhood contains least number of options in terms of food options, its best advised to avoid visiting below neighborhoods :



**Discussion:**

For the Neighborhoods with most number of food options, most frequently visited type of options are below :



**Conclusion:**

After complete analysis of food options available in the city of Toronto , it can be concluded that city has numerous food options visible for people ranging from Indian to Mexican, below Neighborhoods has the highest options available :

