IBM

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Data Science Capstone Week 4

Data Description

Project Title: My Indian Restaurant

DATA

To solve this problem, we will need below data:

- List of neighborhoods in Toronto, Canada
- Latitude and Longitude of these neighborhoods
- Venue data related to Indian restaurants. This will help us find neighborhoods that are more suitable to open an Indian Restaurant.

EXTRACTING THE DATA

- The scrapping of Toronto neighborhoods via Wikipedia
- Getting Latitude and Longitude data of these neighborhoods via Geocoder package
- Using Foursquare API to get venue data related to these neighborhoods

Data Description

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

Will use the Scarborough dataset which we scrapped from Wikipedia on Week 3. Dataset consisting of latitude and longitude, zip codes, places, and many more.

Foursquare API Data

We will need data about different venues (Here, Restaurant) 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.

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:

- 1. Neighborhood
- 2. Neighborhood Latitude
- 3. Neighborhood Longitude
- 4. Venue
- 5. Name of the venue e.g. the name of a store or restaurant
- 6. Venue Latitude
- 7. Venue Longitude
- 8. Venue Category