IBM Applied Data Science Capstone Project

Recommending a location to open an Indian Restaurant in Toronto, Canada

By

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Introduction/Business Problem :

In this Capstone Project, I am trying to suggest or recommend a suitable location for an entrepreneur to open an Indian restaurant in Toronto, Canada. The idea behind this project is that there is a large number of Indian people who are residing in Canada. Taking their taste and liking for Indian food into consideration, an entrepreneur is interested in opening his restaurant which focusses primarily on Indian cuisine. However there are many neighbourhoods in the area of Toronto and many of them already have restaurants and cafes in these areas. Also there are a lot of Asian people residing in these areas. The Indian cuisine being somewhat similar to what Asian people eat in terms of spices and condiments used in preparation would definitely attract them. With this in mind, the entrepreneur would need required help in choosing a suitable location for his Indian restaurant. The location can be an important factor in terms of popularity and gaining profit.

Data:

We need the following data to solve the problem:

1. The list of neighbourhoods which are in Toronto, Canada :
    This data will be extracted from Wikipedia page of Neighbourhoods in Canada using appropriate Python libraries.
2. The geospatial data (Latitudes and Longitudes) of the neighbourhoods :
    The latitudes and longitudes of the neighbourhoods can be listed down using Geocoder package in Python
3. Data about the different venues that are in the neighbourhoods of Toronto:
    This can be accessed using API services such as Foursquare API. Using this, API calls are made to access the data about the venues around a particular location by passing the coordinates of that location.