IBM CAPSTONE PROJECT WEEK 4

Introduction

This is a capstone venture for IBM Data Science Professional Certificate.In this task, I am making a speculative situation for an idea that there may not be sufficient Indian Restaurants in Los Angeles Area. In this manner it may be an extraordinary open door for a business visionary who is situated in USA. As the Indian food is well known among Asian people group, so this business visionary may consider starting its business in territories where asian network resides.With the reason at the top of the priority list, finding the area to open such an eatery is one of the most significant choices for this business visionary and I am planning this task to assist him with finding the most appropriate area.

Business Problem

The goal of this capstone project is to locate the most appropriate area for the business person to open a new Indian Restaurant in Los Angeles,USA. By utilizing Datascience techniques and devices alongside Machine Learning algorithms, for example, Clustering, this project expects to give response to answer the business question : In Los Angeles, if a entrepreneur needs to open an Indian Restaurant, where would it be advisable for them to think about opening it?

Target Audience

The entrepreneur who wants to find the location to open authentic Indian restaurant.

Data

To solve this problem, we will need below data:

- List of neighborhoods in Los Angeles, USA

- Latitude and Longitude of these neighborhoods

- Venue data related to Indian restaurants. This will help us find the neighborhoods that are more suitable to open an Indian Restaurant.

Extracting The Data

- Scrapping of Los Angeles neighborhoods via online website https://familypedia.wikia.org/wiki/List_of_incorporated_cities_and_towns_in_California

- Getting Latitude and Longitude data of these neighborhoods via Geocoder package

- Using Foursquare API to get venue data related to these neighborhoods