

IBM

Applied Data Science Capstone Project

Week 4 Report

Introduction:

The Capstone project is for the Data Science certificate. From this project I am creating the scenario for the concept that there may not be enough in Indian restaurants in Toronto area. So, it might be a good opportunity for the enterprises with the Canada base. As the Indian food is popular enough among the world, so this enterprise might think of openings its business in are where Asian food community resides. with the use of open mind for finding the location to open a restaurant is open of the important decisions for the enterprise and I am designing this data science project to help them to find the perfect location using this project.

Bussiness Problem:

The main goal of this project is to find the perfect accurate location from the enterprise or the entrepreneur

To open a new Indian restaurant in Canada in Toronto Area. by the use of the data science tools with the K - means clustering algorithm this aims to provide the accurate solution to answer the question:

In Toronto, if an entrepreneur wants to open an Indian Restaurant, where should they consider opening it?

Target Audience:

Enterprice or enterperner who want an accurate location to open a 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 the neighborhoods that are more suitable to open an Indian Restaurant.

EXTRACTING THE DATA

- 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**