

WEEK3-IBM CAPSTONE PROJECT-PEER REVIEW ASSIGNMENT

FINDING THE BEST NEIGHBORHOOD TO ESTABLISH A CLINIC IN TORONTO

Introduction

For this Project, I am going to explore finding out the best neighbourhood to open a new clinic as a professional Doctor in Toronto area. We will look into a scenario where a doctor after getting his medical licence wants to open his clinic and which neighbourhood will be suitable depending upon the concentration of clinics , demography and other parameters. As the decision to invest in a space and open a clinic is crucial for the doctor we would like to help him get the best venue.

Business Problem

The objective of this capstone project is to find the most suitable location for the Doctor to open a new clinic in Toronto, Canada. By using data science methods and machine learning methods such as clustering, this project aims to provide solutions to answer the business question: In Toronto, if a doctor wants to open a clinic, where should they consider opening it?

Target Audience

The Doctor who wants to find the neighbourhood/location to open his clinic

Data

To solve this problem, I will need below data:

- List of neighborhoods in Toronto, Canada.
- Latitude and Longitude of these neighborhoods.
- Venue data related to clinics. This will help us find the neighborhoods that are most suitable to a clinic

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