

Using Machine Learning to find locations to open a Spanish Restaurant

1.INTRODUCTION

1.1 Background

For this Capstone project, I am creating a hypothetical scenario for an entrepreneur who wish to open a Spanish restaurant in Toronto where there may not be enough Spanish restaurants. This is the main idea behind this. This would be a great opportunity for this entrepreneur who is based on Canada. As Spanish food Ingredients are similar to Italian. This entrepreneur wants to open a restaurant in location where the Italian foods are popular. Finding a location for a Spanish restaurant is the most important decision for this entrepreneur and I am designing this project to help him find the most suitable location

1.2 Business Problem

The main aim of this project is to find the most suitable place for opening a Spanish restaurant .By using a various data science methods ,libraries, and machine learning methods such as clustering to find the neighbourhoods ,This projects aims to provide solutions to answer the business question: In Toronto ,If an entrepreneur wants to open a Spanish restaurant,where should they consider opening it?

1.3 Target Audience

The entrepreneur who wants to find the location to open an authentic Spanish restaurant

2.Data

To solve this problem, I will need below data:

- ● List of Neighbourhoods in Toronto, Canada.
- ● Latitude and Longitude of these Neighbourhoods.
- ● Venue data related to European restaurants. This will help us find the Neighbourhoods that are

most suitable to open a Spanish Restaurant.

3. Extracting Data

- ● Scraping of Toronto Neighbourhoods via Wikipedia
- ● Getting Latitude and Longitude data of these Neighbourhoods via Geocoder package
- ● Using Foursquare API to get venue data related to these Neighbourhoods