

INTRODUCTION

this project, I am creating a hypothetical scenario for a concept that there may not be enough Chinese Restaurants in Toronto Area. Therefore, it might be a great opportunity for an entrepreneur who is based in Canada. As the Chinese food is popular among Asian community, so this entrepreneur might think of opening its business in areas where Asian community resides. With the purpose in mind, finding the location to open such a restaurant is one of the most important decisions for this entrepreneur and I am designing this project to help him find the most suitable location.

BUSINESS PROBLEM

The objective of this capstone project is to find the most suitable location for the entrepreneur to open a new Chinese Restaurant in Toronto, Canada. By using data science methods and tools along with machine learning algorithms such as clustering, this project aims to provide solutions to answer the business question: In Toronto, if an local business owner wants to open an Chinese Restaurant, where should they consider opening it?

TARGET AUDIENCE

Local business owner who wants to find the location to open authentic Chinese 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 Chinese restaurants. it will help us find the neighborhoods that are more suitable to open an Chinese 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