

Opening Chinese Restaurant in Toronto

By: Zike Wu

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Business Problem

Chinese cuisine (Chinese dishes) originated from different regions of China and has become widespread in many other parts of the world. Regional cultural differences vary greatly amongst the different regions of China, giving rise to the different styles of food. Chinese cookery Introduction of Chinese Food has produced and matured in excess of the centuries, forming a wealthy cultural information it truly is characterized by fine collection of components, precise processing, certain care to your level of fire, and considerable nourishment.

Confucius when mentioned: "Eating could be the utmost important point in daily life."

With increasing amount of Chinese population in Toronto, many chef have been looking into opportunities of opening new Chinese Restaurant. The challenge, besides offering a menu that powers the retention of customer, remains picking the most suitable location.



Solution

The objective of this report is to give a general recommendation to new chefs wanting to open a new Chinese restaurant in Toronto, with respect to location, attraction and the amount of Chinese restaurant around it.

Opening a Chinese food restaurant could prove to be challenging as we have seen a boom of new Chinese restaurant driven by the rising Chinese students and permanent resident in Toronto. The objective of this report is to give a general

recommendation to new chefs wanting to open a new Chinese restaurant in Toronto, with respect to location, attraction and the amount of Chinese restaurant around it. To find the best spot, we need to analyze by leveraging the Foursquare location data, the neighbourhoods of Toronto, the location of other Chinese restaurants and the most important attractions.

Data Description

To begin with, the postal code information of the the neighbourhoods is required. We can grab them from here:

https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M

To complete the analysis, we will leverage Foursquare API as our data provider. It will be a sufficient source of creating dataframe and data visualization to determine the competition and location. Using the API, we gather information about the venues in each neighbourhood within a chosen radius of 100 meters. The data we retrieve will contain information on the venues within a specified distance of the longitude and latitude of the postcodes. The information we will obtain are as follows: Neighbourhood Neighbourhood Latitude and Longitude Venue: Name, Latitude, Longitude, Category.

We will use Pandas library for querying data and managing the dataframe. The result will be in JSON format. In addition to that, we will use Matplotlib for data visualization.

Use of Library

Pandas: Dataframe management

Matplotlib: data visualization

JSON: Library to handle JSON files

XML: plain text format transformation

Folium: Data visualization

Beautiful soup: data scraping

Geocoder: location data retrieval

Scikit Learn: k-means clustering