

# Choose Neighborhoods in Toronto to Open a Sushi Restaurant

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## Introduction

Many people would want to open a Sushi restaurant in Toronto. Indeed, when walking through the city Toronto, one can easily find many neighborhoods do not have Sushi restaurants yet. This appears to be a gap in the market. However, before opening a restaurant, we should consider some factors, for instance, the number of residents in the neighborhoods and residents' flavors. The residents' flavors could probably be driven by the neighborhood cultures. For example, many Asians could prefer to eat Sushi food. Overall, how to select a right neighborhood in Toronto to open a Sushi restaurant becomes an important business problem.

## Data

As mentioned in section Introduction, how to select a right neighborhood in Toronto to open a Sushi restaurant becomes an important business problem. In order to address this problem, we can employ a data-driven approach. Many other North-American cities, for example, New York City, has already had Sushi restaurants. We can compare Toronto's neighborhoods with their counterparts in New York City. First, we can select neighborhoods in New York City in which Sushi restaurants became popular. Second, we can find similar neighborhoods in Toronto as those selected New York City neighborhoods other than Sushi restaurants. The resulting neighborhoods could be potential candidates for a Sushi restaurant.

## Neighborhoods data

For Toronto, we can retrieve its neighborhoods data via wikipedia ([https://en.wikipedia.org/wiki/List\\_of\\_postal\\_codes\\_of\\_Canada:\\_M](https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M)).

It will contain neighborhoods and their geographical information, such as latitude and longitude.

See data sample below:

PostalCode	Borough	Neighborhood	Latitude	Longitude
M3A	North York	Parkwoods	43.7532586	-79.3296565

M4A	North York	Victoria Village	43.7258823	-79.3155716
M5A	Downtown Toronto	Regent Park, Harbourfront	43.6542599	-79.3606359

For New York City, we can get data from IBM Developer Skills Network ([https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/IBMDeveloperSkillsNetwork-DS0701EN-SkillsNetwork/labs/newyork\\_data.json](https://cf-courses-data.s3.us.cloud-object-storage.appdomain.cloud/IBMDeveloperSkillsNetwork-DS0701EN-SkillsNetwork/labs/newyork_data.json)). It will contain neighborhoods and their geographical information too.

## **Foursquare data**

AS long as neighborhoods' geographical information is available, we can further explore each neighborhood via Foursquare API. This API will return what venues are located in each neighborhood, such as parks, gyms and cafés.

Based on the venue data, we can then do clustering so that we can find which Toronto neighborhoods share the common venue patterns with their counterparts in New York City.

## **Methodology**

TBA

## **Results**

TBA

## **Discussion**

TBA

## **Conclusions**

TBA