

# Capstone Project - Battle of the Neighborhoods

## 1. Introduction: Business Problem - Opening a Japanese Restaurant

New York City's demographics show that it is a large and ethnically diverse metropolis. With its diverse culture, comes diverse food items. There are many restaurants in New York City, each belonging to different categories like Chinese, Spanish, French etc.

If you're a stakeholder, entrepreneur, or chef interested in opening a Japanese restaurant in New York city, this will be for you.

Using efficient data science tools, we will suggest the promising locations to solve the below problems of finding out

- Which areas in New York City have Japanese restaurants?
- Which all areas lack Japanese Restaurants?
- Which is the best location for Japanese restaurants in New York City?

## 2. Data Description

For this project we need the following data:

(1) New York City data that contains list Boroughs, Neighborhoods along with their latitude and longitude.

- ✧ Data source : [https://cocl.us/new\\_york\\_dataset](https://cocl.us/new_york_dataset)
- ✧ Description : This data set contains the required information. And we will use this data set to explore various neighborhoods of New York City.

(2) Japanese restaurants in each neighborhood of New York City.

- ✧ Data source : Foursquare API
- ✧ Description : By using this API, we will get all the venues in each neighborhood. We can filter these venues to get only Japanese restaurants.

(3) GeoSpace data

- ✧ Data source : <https://data.cityofnewyork.us/City-Government/Borough-Boundaries/tqmj-j8zm>
- ✧ Description : By using this geo space data we will get the New York Borough boundaries that will help us visualize choropleth map.