

IBM Battle of the Neighbourhoods
CAPSTONE PROJECT
IBM Applied Data Science Capstone
Best Japanese Restaurant in New York

Introduction

This capstone project explores the best locations for Japanese restaurants in New York city. The findings in the project will help to advise potential investors in the best boroughs and neighbourhoods to set up a new Japanese restaurant using existing New York data and data drawn from FourSquare.

Data

In order to answer the above questions, data on New York City neighbourhoods, boroughs to include boundaries, latitude, longitude, restaurants, and restaurant ratings and tips are required.

New York City data containing the neighbourhoods and boroughs, latitudes, and longitudes will be obtained from the data source: https://cocl.us/new_york_dataset

All data related to locations and quality of Italian restaurants will be obtained via the FourSquare API utilized via the Request library in Python.

Methodology

- Data will be collected from https://cocl.us/new_york_dataset and cleaned and processed into a dataframe.
- FourSquare be used to locate all venues and then filtered by Japanese restaurants. Ratings, tips, and likes by users will be counted and added to the dataframe.
- Data will be sorted based on rankings.
- Finally, the data be will be visually assessed using graphing from Python libraries.

Problem Statement

What are the best boroughs and neighbourhoods to start a Japanese restaurant in Ney York City.

Conclusions

During the process of producing the solution to the problem, I managed to use a lot more of the tools from the IBM course. I had some issues with FourSquare limits and compatibility on my Jupyter Notebooks. Other than that, my project worked out well.

I managed to identify the best Boroughs and Neighbourhoods to set up a new Japanese Restaurant in New York. In a later project I would like to develop this further and try it out in other cities around the globe and apply it to different situations.