

Capstone Project - The Battle of Neighborhoods

Clearly define a problem or an idea of your choice, where you would need to leverage the Foursquare location data to solve or execute. Remember that data science problems always target an audience and are meant to help a group of stakeholders solve a problem, so make sure that you explicitly describe your audience and why they would care about your problem.

My challenge: Determine where in New York City has the best Chinese food.

According to the US census bureau, the US Asian population had the highest growth rate of 72% between 2000 and 2015. The largest group of Asians with high growth was Chinese Americans, and the city with the largest increase in Chinese population was NYC. My project will be to determine where in NYC someone should go if they want the best Chinese food.

Data

For this project I will use:

https://cocl.us/new_york_dataset (to determine neighborhoods and boroughs with their coordinates)

Foursquare API (to sort and find the ratings of venues)

<https://data.cityofnewyork.us/City-Government/Borough-Boundaries/tqmj-i8zm> (geo space data on boundaries)

Using this data, I will use the neighborhood and Foursquare data to determine which neighborhoods have the most Chinese restaurants and also rank the restaurants by rating. I will then visualize the data by both restaurant density and rating for the neighborhoods. This will help people determine where in NYC is best for Chinese food, and potentially where to start future Chinese restaurants.