

THE BATTLE OF NEIGHBOURHOODS

# THAI RESTAURANTS IN NEWYORK

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# INTRODUCTION

New York City's demographics show that it is a large and ethnically diverse metropolis. It is the largest city in the United States with a long history of international immigration. New York City was home to nearly 8.5 million people in 2014, accounting for over 40% of the population of New York State and a slightly lower percentage of the New York metropolitan area, home to approximately 23.6 million. Over the last decade the city has been growing faster than the region. The New York region continues to be by far the leading metropolitan gateway for legal immigrants admitted into the United States.



# INTRODUCTION

- New York City has also been a major point of entry for immigrants; the term "melting pot" was coined to describe densely populated immigrant neighbourhoods on the Lower East Side. As many as 800 languages are spoken in New York, making it the most linguistically diverse city in the world. English remains the most widely spoken language, although there are areas in the outer boroughs in which up to 25% of people speak English as an alternate language, and/or have limited or no English language fluency. English is least spoken in neighbourhoods such as Flushing, Sunset Park, and Corona.
- With its diverse culture, comes diverse food items. There are many restaurants in New York City, each belonging to different categories like Chinese, Thai, Indian, and French etc.



# PROBLEM

To find the answers to the following questions:

- Q1) List and visualize all major parts of New York City that have great Thai restaurants.
- Q2) What is the best location in New York City for Thai Cuisine?
- Q3) Which areas have a potential Thai Restaurant Market?
- Q4) Which all areas lack Thai Restaurants?
- Q5) Which is the best place to stay if you prefer Thai Cuisine?



# DATA SECTION

For this project we need the following data:

1. New York City data that contains list Boroughs, Neighbourhoods 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 neighbourhoods of New York City.



# DATA SECTION

2. Thai restaurants in each neighbourhood 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 Thai 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 the choropleth map.



# METHODOLOGY

- We begin by collecting the New York city data from the following link "[https://cocl.us/new\\_york\\_dataset](https://cocl.us/new_york_dataset)"
- We will find all venues for each neighbourhood using Foursquare API.
- We will then filter out all venues with Thai restaurant for further analysis.
- Next using Foursquare API, we will find the Ratings, Tips, and Number of Likes for all the Thai Restaurants.



# METHODOLOGY

- We will then sort Neighbourhoods and Borough the data keeping Ratings as the constraint.
- Next, we will consider all the neighbourhoods with average rating greater or equal 9.0 to visualize on map.
- We will join this dataset to original New York data to get longitude and latitude.
- Finally, we will visualize the Neighbourhoods and Borough based on average Rating using python's Folium library.



# CONCLUSION

So now we can answer the questions asked above in the Questions section:

Answers:

1.The following location in New York City has great Thai restaurants.

	Borough	Neighborhood	Latitude	Longitude	Average Rating
0	Manhattan	Chinatown	40.715618	-73.994279	9.25
1	Brooklyn	Prospect Lefferts Gardens	40.658420	-73.954899	9.00



# CONCLUSION

- 2.Chinatown (Manhattan), Prospect Lefferts Garden (Brooklyn) are the best neighborhoods for Thai cuisine.
- 3.Manhattan have a potential Thai Restaurant Market.
- 4.Gowanus ranks last in average rating of Thai Restaurants.
- 5.Manhattan is the best place to stay if you prefer Thai Cuisine.