

Opening an Asian restaurant in Queens, New York City

2.Data

To address the problem statement in this project, data are gathered through three sources as follows.

A. New York City dataset: The NYC data contains all five Boroughs, their Neighborhoods, and the coordinates that define their location. The dataset provides the ability to explore all the Neighborhoods in Queens. This dataset is accessible through this [link](#).

Data sample:

	Borough	Neighborhood	Latitude	Longitude
0	Bronx	Wakefield	40.894705	-73.847201
1	Bronx	Co-op City	40.874294	-73.829939
2	Bronx	Eastchester	40.887556	-73.827806
3	Bronx	Fieldston	40.895437	-73.905643
4	Bronx	Riverdale	40.890834	-73.912585

B. Foursquare location dataset: The Foursquare dataset has the locations of different venues at each Neighborhood in Queens, NYC. The Foursquare API is used to gather restaurants and Asian restaurants of each neighborhood in order to identify the neighborhoods with minimum number of restaurants and Asian restaurants. This data is accessible [here](#).

Data sample:

	Neighborhood	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
1	Elmhurst	40.744049	-73.881656	Little House Cafe 聚會園茶餐厅	40.741853	-73.874486	Asian Restaurant
2	Forest Hills	40.725264	-73.844475	MoCA Asian Bistro	40.720983	-73.845436	Asian Restaurant
3	Forest Hills	40.725264	-73.844475	Asian Bowl	40.726644	-73.851988	Asian Restaurant
4	Flushing	40.764454	-73.831773	Peking Duck Sandwich Stall	40.758883	-73.829913	Asian Restaurant
5	Flushing	40.764454	-73.831773	趙記港式裹春粥粉麵飯	40.758444	-73.831640	Asian Restaurant

C. Asian population dataset: It provides the Asian population count and percentage in each Queens neighborhood. This dataset serves as the background information to assess whether a neighborhood has the potential customer base to support a new Asian Restaurant. It is accessible [here](#), through the statistical Atlas website.

Data sample:

	Neighborhood	Perctg_of_Asian_Population	Count	Rank
0	Astoria	15.90	26800	31
1	Auburndale	49.00	13000	6
2	Bay Terrace	24.00	3212	21
3	Bayside	43.50	21100	7
4	Bellerose	38.80	11600	11