New York City Restaurants Cuisine Analysis

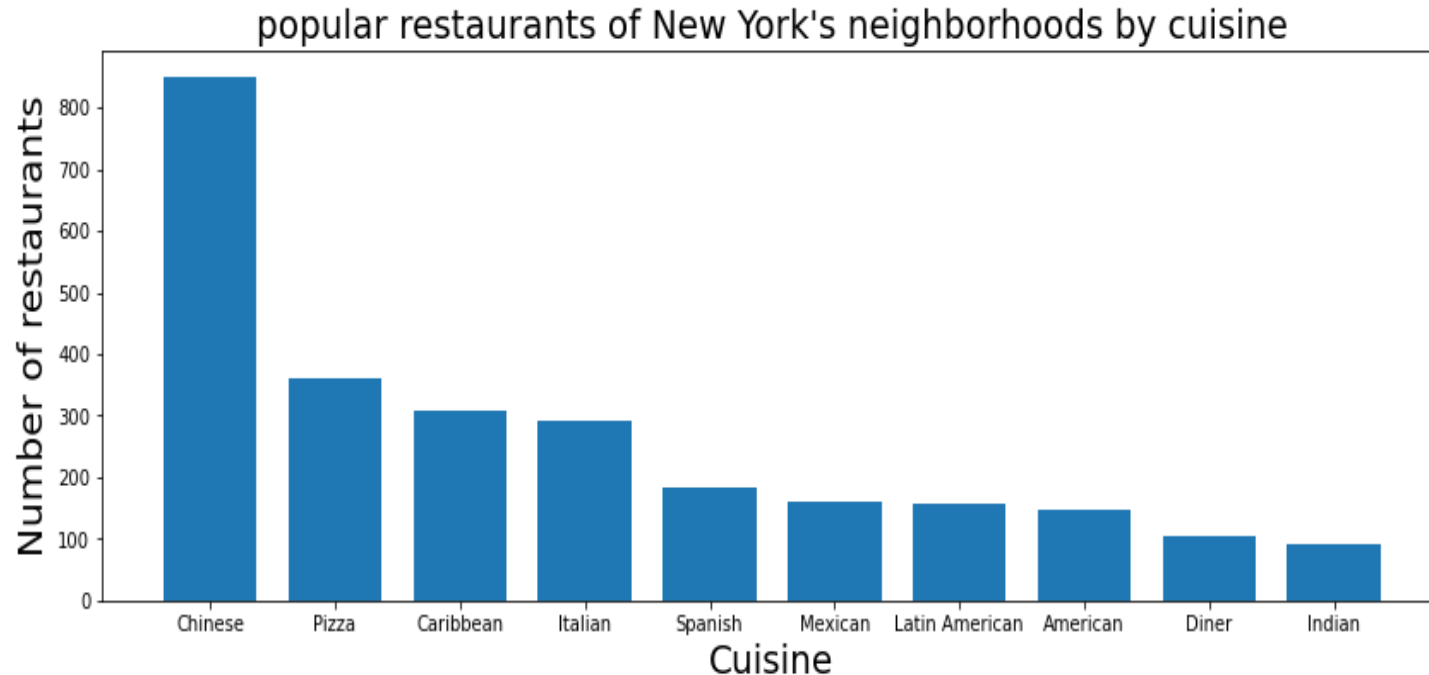Applied data science capstone Project by Gautam Kadiresh

The restaurant business

- Generally people have personal cuisine preferences which acts as a bias to select a restaurant to eat in.
- This means choosing the cuisine of the restaurant is quite important to those in the restaurant business.
- An informed and good choice can be made if the preferences of the city's people are known or the regions where a particular cuisine is widely popular.
- This can be found by knowing the cuisines of popular/highly rated restaurants of each neighborhood of the city
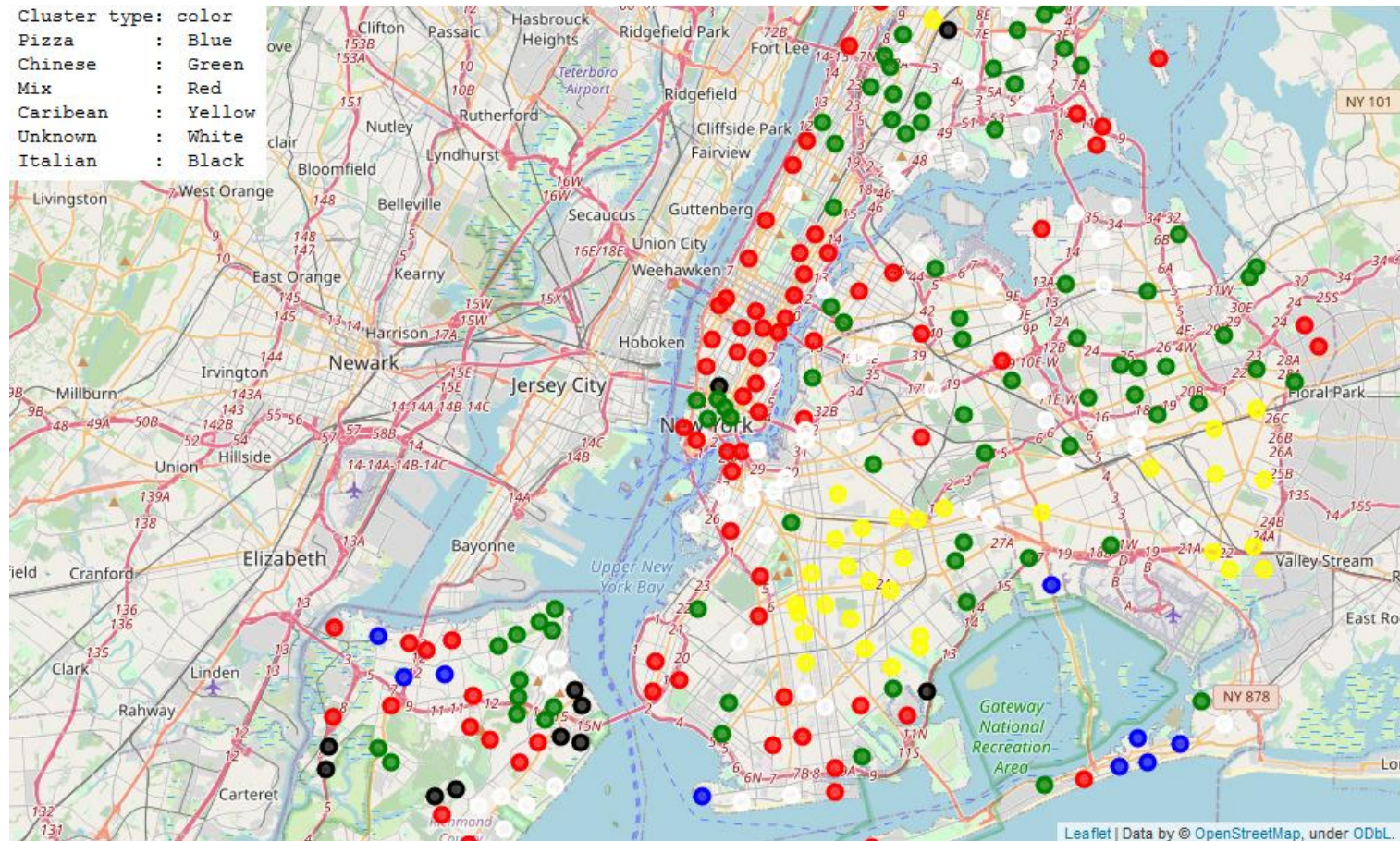
Data acquisition and cleaning

- The list of all neighborhoods along with their coordinates can be downloaded from https://geo.nyu.edu/catalog/nyu_2451_34572 or https://cocl.us/new_york_dataset.
- The top 20 highest rated restaurants in a region can be got by using foursquare api.
- The above two sources return .json files which contain much more details than we are interested. We use only the name of neighborhood, coordinates of neighborhood, name of the restaurant and cuisine of the restaurant.
- The data is then grouped by neighborhood to attain no. of restaurants of each cuisine for each neighborhood.

Chinese cuisine is the highest rated cuisine

popular restaurants of New York's neighborhoods by cuisine

The second highest rated type of restaurant is closely contended by Pizza, Caribbean and Italian

The city can be divided geographically based on their cuisine preferences

Regional cuisine preferences

- The Chinese cuisine is very popular in the Bronx borough, the northern half of Queens borough and north west of Staten island.
- The Caribbean cuisine is popular in Brooklyn, southern half of Queens and far north of Bronx.
- The Manhattan Island has not shown singular preference for any cuisine.
- Staten Island has shown preference for Italian restaurants with the exception of the northern part of the island.

Conclusion:

City wide the Chinese cuisine is the most highly rated but the city also shows strong local preferences like Caribbean cuisine in Brooklyn, Italian in Staten Island or that Manhattan shows no preference to a single cuisine.