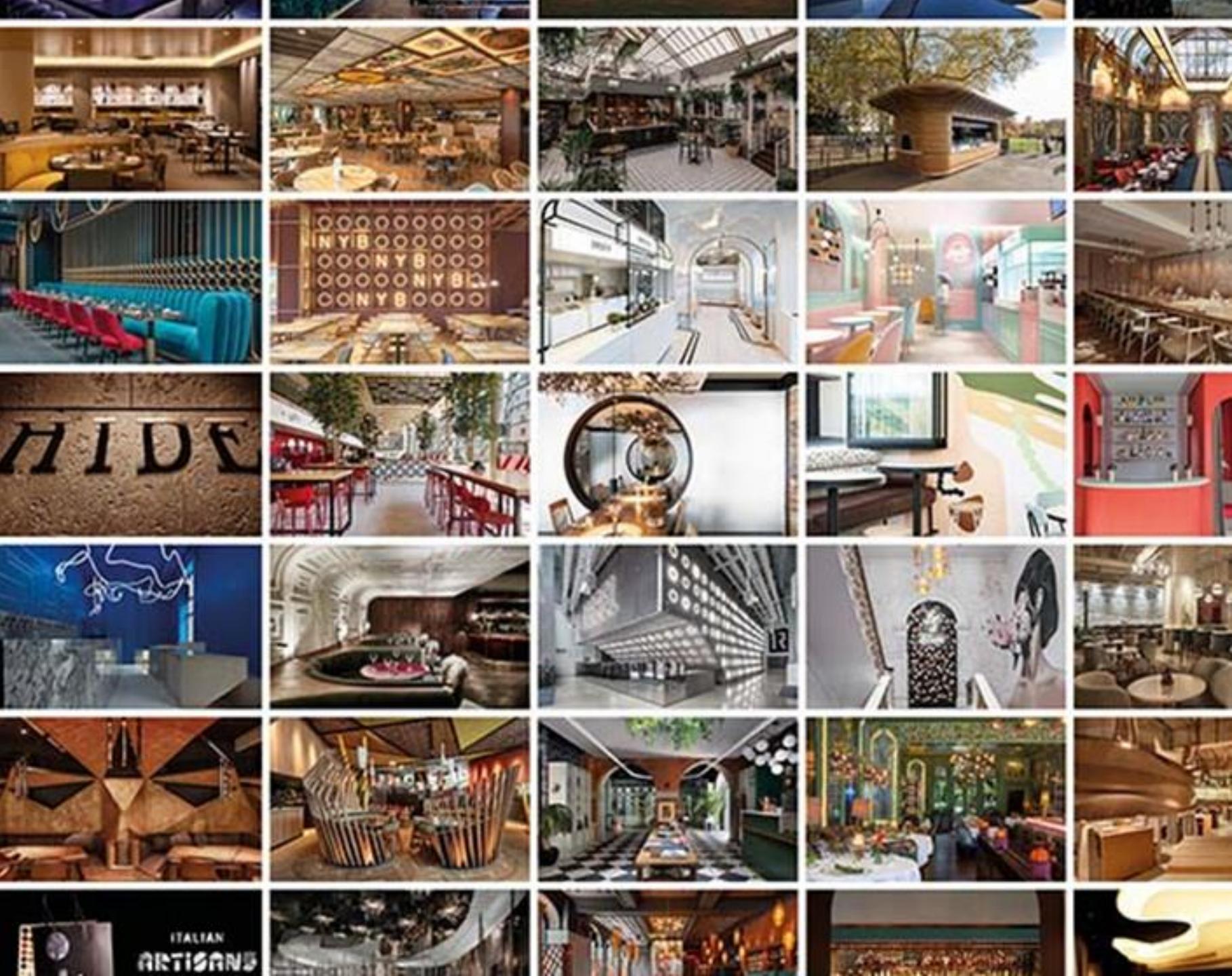


Restaurants in Toronto

By David Rúa



In this project, I'll go through the process step by step from problem designing, data preparation to analysis and a conclusion that can be considered by **tourists** or **business investors** concerning restaurants categories in Toronto.

Introduction - Business Problem -

The cuisine of Toronto reflects Toronto's size and multicultural diversity. Different ethnic neighborhoods throughout the city focus on specific cuisines, such as authentic Chinese and Vietnamese found in the city's Chinatowns, Korean in Koreatown, Greek on The Danforth, Italian cuisine in Little Italy and Corso Italia, and Indian in Little India.

Toronto is also home to many fine dining establishments and chain restaurants ranging from fast food to casual or upscale dining.

Several culinary festivals take place in Toronto each year. In addition, food tours in Toronto, like those offered by Tasty Tours Toronto or Culinary Adventure Co are an increasingly popular way for locals and tourists to explore the food culture of the city.

I would like to know more about restaurants in the city. In addition, this battle of neighborhoods is a perfect option to get deep in this subject and discover a little more about the city.

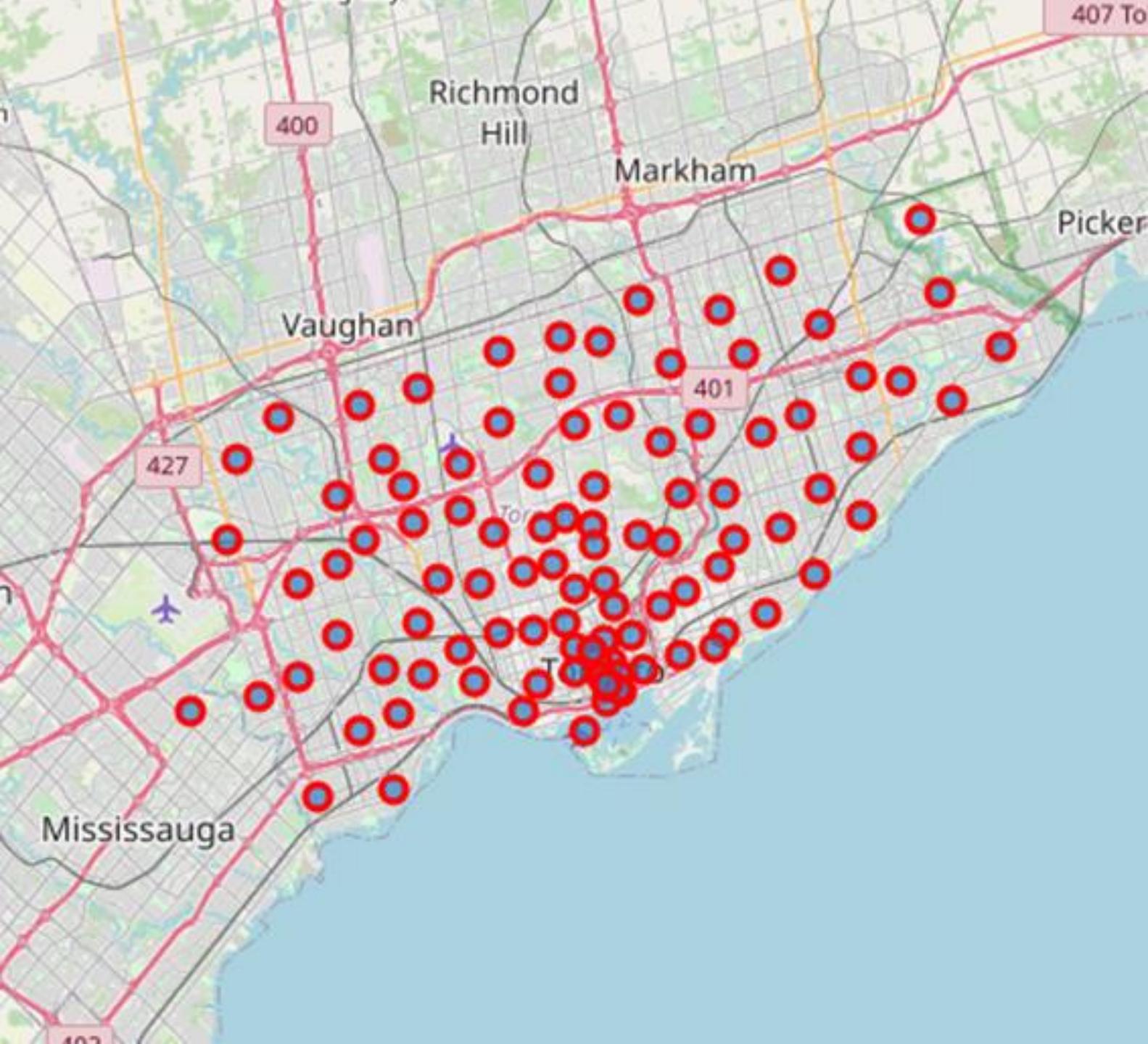
What I would like to solve is where should I or any other tourist go to find a specific type of restaurant in Toronto, according to the location.

Data description

- ❖ Import and install all libraries (pandas, numpy, folium, matplotlib).
- ❖ Data collection: Toronto boroughs (Wikipedia) and geographical coordinates (Geospatial_data).
- ❖ Get location data using Foursquare.
- ❖ Run k-means to cluster the neighborhoods.
- ❖ Explore frequency of categories in the neighborhoods.
- ❖ Exploratory Data Analysis.
- ❖ Explore restaurants categories vs boroughs.

Methodology

- ❖ 10 boroughs.
- ❖ 103 neighborhoods.
- ❖ 266 unique venue categories.
- ❖ 47 categories include restaurant.
- ❖ 445 restaurants.
- ❖ Most common: Restaurant, Japanese, Italian, Sushi, American, Fast Food, Seafood, Thai, Vegetarian / Vegan, and Middle Eastern.



Word cloud

All categories

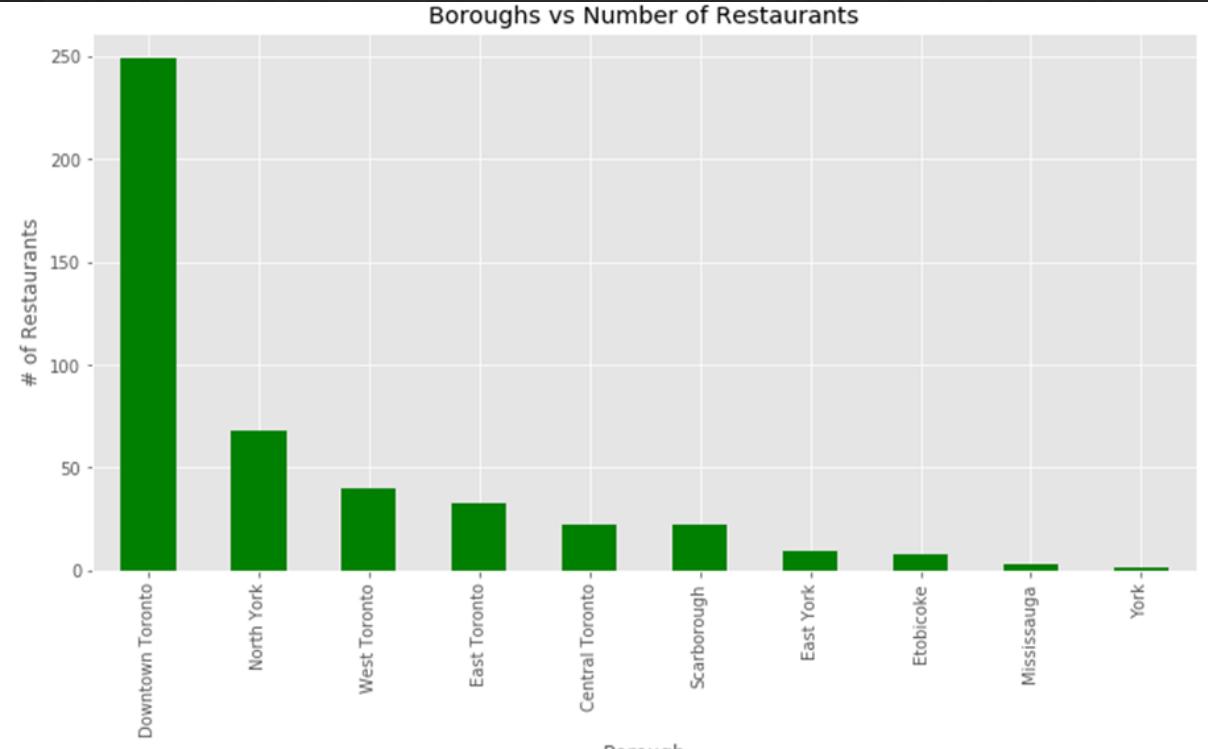


Restaurant categories

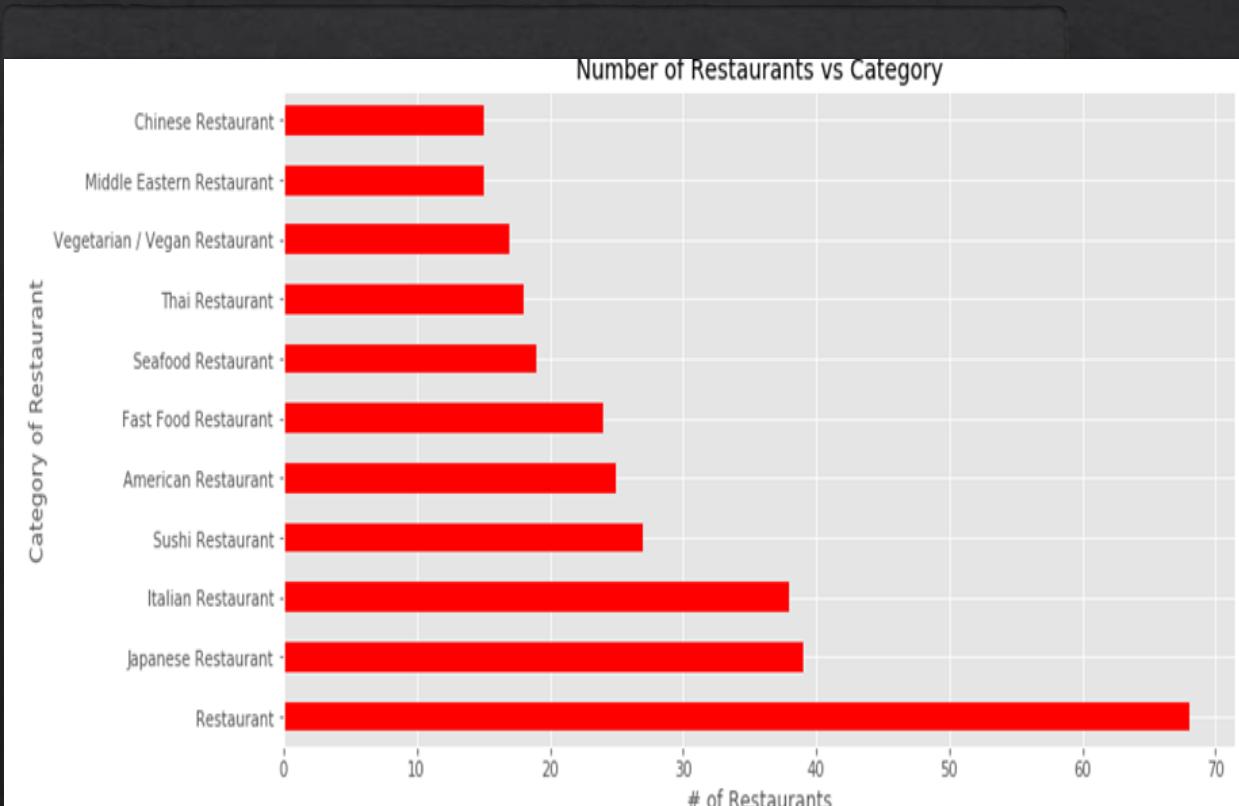


Bar plots

By Borough



By Category



Results

- ❖ The main restaurant category is Restaurant (68) without a specific cuisine, followed by Japanese Restaurant (39) and Italian Restaurant (38).
- ❖ Almost 56% of restaurants are in Downtown Toronto.
- ❖ If a tourist is interested in knowing a great variety of restaurants, I would suggest go Downtown Toronto, look for a specific category and find it in the map.

Discussion

- ❖ For a business investor I would recommend start exploring North York and West Toronto, that were the second and third boroughs with more restaurants.
- ❖ To the owners, I would suggest adding some other adjective to the Restaurant category, due to it is easy for a tourist if there is an extra label for decide of visit a venue.
- ❖ After doing this project, I suggest importing and installing all necessary libraries at the beginning of the notebook.
- ❖ As I am a travel enthusiast, with this project I also wanted to create a code that can be used or reply in many cities around the world, with a few changes in the targeted city.

Conclusion

- ❖ With this “Battle of Neighborhoods” I found what categories of restaurants are more common and where are they located in the city, so we can explore a particular neighborhood. For example, now I can find Thai restaurants easily with the notebook.
- ❖ A tourist can find this project useful if is planning to visit a specific borough of Toronto and want to explore a special kind of food.
- ❖ A businessperson would have an initial idea of what options are missing in some boroughs, according to the categories with few frequency and potential customers.