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#### **Business Understanding**

• Find insights about the neighborhoods of New York City to open a new Restaurant of Brazilian food.

### Data Understanding

• Data set : <a href="https://cocl.us/new\_york\_dataset">https://cocl.us/new\_york\_dataset</a>

Description: This data set contains the required information. Moreover, we will use this data set to explore various neighborhoods of New York City.

- Data set : Foursquare API
- Data set: https://data.cityofnewyork.us/City-Government/Borough-Boundaries/tqmj-j8zm

Description: By using this geo, space data we will get the New Yor k Borough boundaries that will help us visualize choropleth map.

# Data Preparation & Cleaning

• I had use the Foursquare API to get the top 100 venues with in a radius of 1000 meters for a given latitude and longitude. And with data um use an Explanatory Data Analysis to understand the data.

# Modeling

• In this part of the project, it was not necessary to include machine learning models, as the result was enough for the stakeholders to make the right decision on where to open the new Brazilian restaurant.

#### **Evaluation**

• I have answered all posed business questions in the introduction of the is project. Now it is up to the stakeholders to decide whether the new restaurant will open, only with the analysis of this data set, otherwise more data will be needed so that even a machine learning model is implemented.

# Deployment

• In this project, we are going to implement this feature in the future using simple linear regression algorithm with scikit-learn for simplicity, we will use Flask as it is a very light web framework.

#### Conclusions

• Greenwich Villag (Manhattan), West Village (Manhattan), Astoria (Queens) are some of the best neighborhoods for Brazilian Cuisine.

Manhattan have potential to Brazilian Restaurant Market.

 Bedford Stuyvesant ranks last in average rating of Brazilian Restaurants.

Manhattan is the best place to stay if you prefer Brazilian Cuisine.