**Restaurant Reccomendation in New York**

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1. **Introduction:**
2. Background

New York is one of the most populous city in the United States, and also the [most densely populated](https://en.wikipedia.org/wiki/List_of_United_States_cities_by_population_density" \o "List of United States cities by population density) major city in the United States with an estimated 2019 population of 8,336,817 distributed over about 302.6 square miles (784 km2).

With this population and dense, it seems that opening a Restaurant in New York is both a chance and challenge.

1. Problem

The most challenging is to locate the for the Restaurant under some conditions:

* High Density of living
* Low competitors

1. Solution

The problem of finding High Density should be solved by NY\_Airbnb database, using ‘DBScan’ and ‘Kmeans’ Technology while checking for Competitors can be done by Foursquare API

1. **Data Acquisition and Cleaning**
2. Data Sources

The data for New York Airbnb is acquired from [this link](https://www.kaggle.com/dgomonov/new-york-city-airbnb-open-data) of Kaggle.

The API that used for checking the Restaurants around the locations is [FourSquare](https://foursquare.com/)

1. Data Cleaning
2. Feature Selection