The Battle of Neighborhoods

What is the best place where can I start my restaurant business in New York?

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Introduction

1.1 Background

New York City is the largest city by population in the United States, located in the state of New York. New York's population is similar to London in the United Kingdom with over 8 million people currently living in it, and over 22 million people live in the bigger New York metropolitan area. It is in the south end of the state of New York, which is in the northeastern United States. It is the financial capital of the US since it is home to the nation's stock market, Wall Street, and the One World Trade Center. A leading global city; New York exerts culture, media and capital internationally, as well as attracting great numbers of international travelers. It is also the home of the United Nations Headquarters.

1.2 Problem description

The cuisine of New York City comprises many cuisines belonging to various ethnic groups that have entered the United States through the city. Almost all ethnic cuisines are well represented in New York, both within and outside the various ethnic neighborhoods.[1] New York was also the founding city of New York Restaurant Week which has spread around the world due to the discounted prices that such a deal offers.[2] In New York there are over 12,000 bodegas, delis, and groceries, and many among them are open 24 hours a day, 7 days a week.

Food associated with or popularized in New York :

- Ashkenazi Jewish cuisine : celery soda, New York-style pastrami..

- Italian-American cuisine : Espresso, Cappuccino..

- Chino-Latino cuisine : fried rice, fried pork chop..

- Street food : arepas, calzones..

An X company needs to find the correct location to start.

The objective of this study is to locate and recommend to anyone who wants to open a new restaurant in New York City.

Chapter 2

The Data

In this project we will analyze the neighborhoods of the city New York City.

2.1 Data of Boroughs and neighborhoods in New York City

This data file includes all needed information to find out more about hosts, geographical availability, necessary metrics to make predictions and draw conclusions.

Link : https://www.kaggle.com/dgomonov/new-york-city-airbnb-open-data. So we took just $(neighbourhood_group, neighborhood, latitude, longitude) from the dataset.$

	neighbourhood_group	neighborhood	latitude	longitude
0	Brooklyn	Kensington	40.64749	-73.97237
1	Manhattan	Midtown	40.75362	-73.98377
2	Manhattan	Harlem	40.80902	-73.94190
3	Brooklyn	Clinton Hill	40.68514	-73.95976
4	Manhattan	East Harlem	40.79851	-73.94399

2.2 Restaurants in New York City:

This data will cover different restaurants that already exists in New York City and different food markets.

Analysis of localization of food markets permits to have an idea of location that will be near to fresh ingredients suppliers. This data will be provided by Foursquare API. Foursquare API permits to provide venues information for each neighborhood in New York City.

Table below gives some restaurant in New York City:

	Neighborhood	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Restaurant type
4	Kensington	40.64749	-73.97237	Werkstatt	40.645252	-73.970341	Austrian Restaurant
6	Kensington	40.64749	-73.97237	La Loba Cantina	40.645657	-73.972814	Mexican Restaurant
7	Kensington	40.64749	-73.97237	Thai Farm Kitchen	40.644148	-73.976047	Thai Restaurant
11	Kensington	40.64749	-73.97237	Suzy's Roti Parlour	40.646618	-73.970269	Caribbean Restaurant
12	Kensington	40.64749	-73.97237	AM Thai Bistro	40.646810	-73.970162	Thai Restaurant