The battle of Neighborhoods

Problem background :

New York City (NYC), often called simply New York, is the most populous city in the United States. With an estimated 2019 population of 8,336,817 distributed over about 302.6 square miles, New York City is also the most densely populated major city in the United States. Located at the southern tip of the U.S. state of New York, the city is the center of the New York metropolitan area, the largest metropolitan area in the world by urban landmass. With almost 20 million people in its metropolitan statistical area and approximately 23 million in its combined statistical area, it is one of the world's most populous megacities.

Situated on one of the world's largest natural harbors, New York City is composed of five boroughs, each of which is a county of the State of New York. The five boroughs—Brooklyn, Queens, Manhattan, the Bronx, and Staten. The city and its metropolitan area constitute the premier gateway for legal immigration to the United States. As many as 800 languages are spoken in New York, making it the most linguistically diverse city in the world. New York is home to more than 3.2 million residents born outside the United States, the largest foreign-born population of any city in the world as of 2016. As of 2019, the New York metropolitan area is estimated to produce a gross metropolitan product (GMP) of $2.0 trillion. (Reference: Wikipedia)

Problem description:

Due to the COVID, many restaurants are shutting down in the city. Let's say if someone is planning to open a new restaurant, they need a better understanding of the city. The objective of this capstone project is not only to analyze New York City as a whole, look for popular locations for new business, and also provide the overall status of neighborhoods in the city.

Based on the above info, we will answer three questions below:
1. What the most visited venus in New York City?
2. Which neighborhood has the most venues?
3. What the best investment choices in new york city if someone wants to open a restaurant?

By answering the above three questions, it will help tourists or investors to know what place is better to visit, invest, or to start their own business based on the venues' information. This will also help people to make decisions if they are thinking about migrating to New York City. In short, the target for this project is basically everyone who is trying to explore different places or similar places.

Description of the data

The main data that will use in the project is from below link:
https://maps.princeton.edu/catalog/nyu-2451-34572.
we will use the below data:
1. List of neighborhoods in new york city.
2. Latitude and longitude coordinates of those neighborhoods
3. Specific venue data and mainly related to restaurants

Data We Need

	Neighborhood	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
0	Wakefield	40.894705	-73.847201	Lollipops Gelato	40.894123	-73.845892	Dessert Shop
1	Wakefield	40.894705	-73.847201	Rite Aid	40.896649	-73.844846	Pharmacy
2	Wakefield	40.894705	-73.847201	Walgreens	40.896528	-73.844700	Pharmacy
3	Wakefield	40.894705	-73.847201	Carvel Ice Cream	40.890487	-73.848568	Ice Cream Shop
4	Wakefield	40.894705	-73.847201	Dunkin'	40.890459	-73.849089	Donut Shop
5	Wakefield	40.894705	-73.847201	Subway	40.890468	-73.849152	Sandwich Place
6	Wakefield	40.894705	-73.847201	Central Deli	40.896728	-73.844387	Deli / Bodega
7	Wakefield	40.894705	-73.847201	Koss Quick Wash	40.891281	-73.849904	Laundromat
8	Co-op City	40.874294	-73.829939	Capri II Pizza	40.876374	-73.829940	Pizza Place
9	Co-op City	40.874294	-73.829939	Rite Aid	40.870345	-73.828302	Pharmacy

Use Folium to visualize the data