

Steakhouse Analysis: New York vs. Chicago

Background:

New York, NY and Chicago, IL are often viewed as the most powerful cities in the United States, with numerous businesses headquartered in each. In these cities, fine dining and sight-seeing are part of the culture that contribute to their prestige and perpetuation of business. In this analysis, I decided to leverage the Foursquare API to analyze the number of steakhouses in proximity to IBM's locations in each city and determine if the cities are similar or not in this respect.

Data:

The data used in this project was extracted directly from the Foursquare API using a "steakhouse" keyword in the query. Using IBM's New York and Chicago addresses, I created a dataset of steakhouses within a thousand meters of these two locations.

I then cleaned the dataset to keep only the columns that included the name of the venue and any other features that were associated with location. The table below depicts the cleaned dataset that was used for the analysis of steakhouses around IBM New York. The same data collection method was used for IBM Chicago.

Method

My aim was to give a better understanding of the number of steakhouses in proximity to a standardized business in each city and use this analysis to assist business professionals who may be interested in taking clients or colleagues to a nice restaurant. I loaded the geographical data from Foursquare and transferred it to a Pandas dataframe for each city. Using the Folium library, I created a map of the city and superimposed the locations on it.

Results

Descriptive Information – Closest Steakhouses:

New York

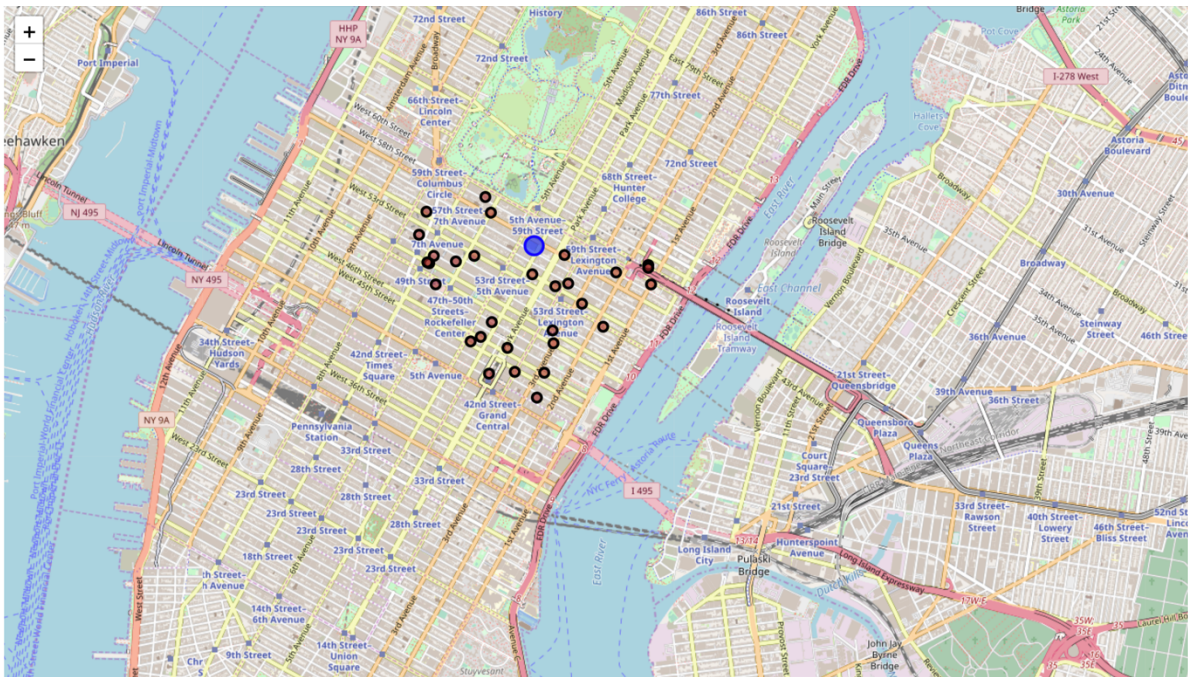
	name	categories	address	cc	city	country	crossStreet	distance	formattedAddress	labeledLatLngs	lat	lng	neighborhood	postalCode
22	Monkey Bar	New American Restaurant	60 E 54th St	US	New York	United States	btwn Madison & Park Ave.	223	[60 E 54th St (btwn Madison & Park Ave.), New ...	[{'label': 'display', 'lat': 40.76015032843378...	40.760150	-73.973146	NaN	10022
26	BLT Steak	Steakhouse	106 E 57th St	US	New York	United States	at Park Ave	250	[106 E 57th St (at Park Ave), New York, NY 100...	[{'label': 'display', 'lat': 40.76149679392716...	40.761497	-73.970197	NaN	10022
11	Bobby Van's Steakhouse	Steakhouse	131 E 54th St	US	New York	United States	at Lexington Ave	362	[131 E 54th St (at Lexington Ave), New York, N...	[{'label': 'display', 'lat': 40.7592819749193...	40.759282	-73.971006	NaN	10022
16	Angus Club Steakhouse	Steakhouse	135 E 55th Street	US	New York	United States	NaN	401	[135 E 55th Street, New York, NY 10022, United...	[{'label': 'display', 'lat': 40.75947978233424...	40.759480	-73.969834	NaN	10022
18	Quality Italian	Italian Restaurant	57 W 57th St	US	New York	United States	at 6th Ave	424	[57 W 57th St (at 6th Ave), New York, NY 10019]	[{'label': 'display', 'lat': 40.76447598357648...	40.764476	-73.977032	NaN	10019

Chicago

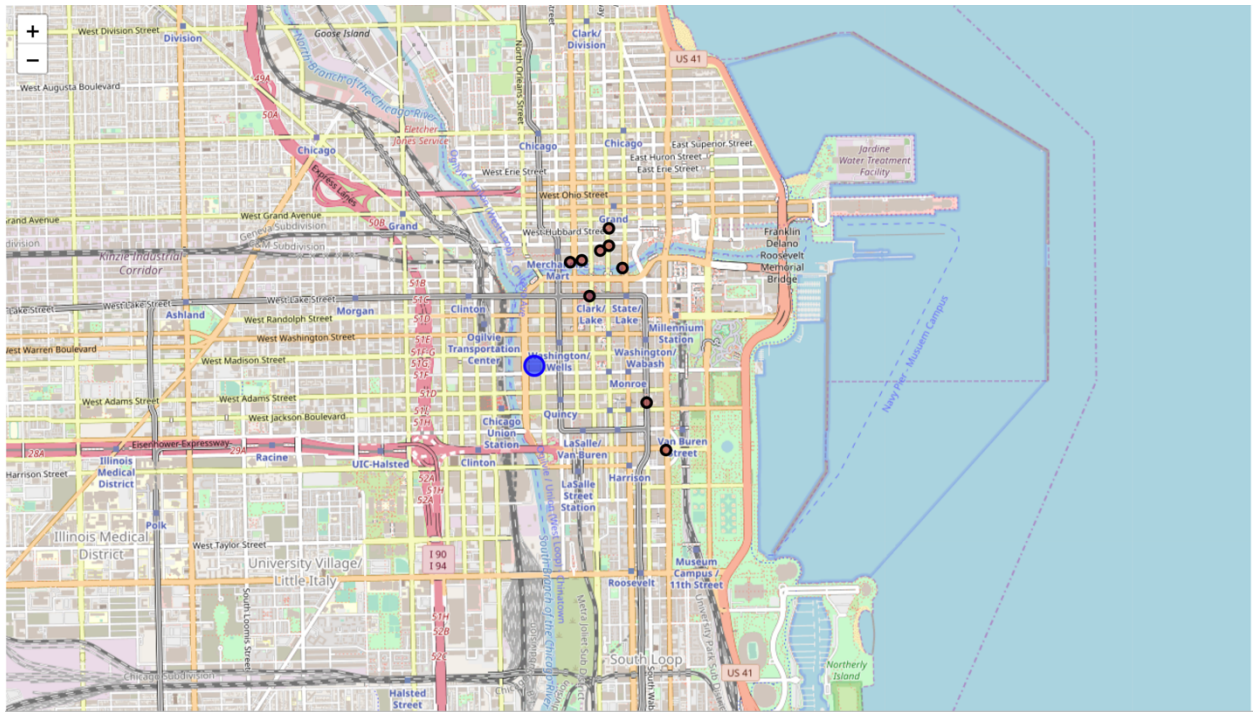
	name	categories	address	cc	city	country	crossStreet	distance	formattedAddress	labeledLatLngs	lat	lng	postalCode	state
2	Ronny's Original Chicago Steak House	Steakhouse	100 W Randolph St	US	Chicago	United States	at Lake & Clark St	653	[100 W Randolph St (at Lake & Clark St), Chica...	[['label': 'display', 'lat': 41.88573474519847...	41.885735	-87.631195	60601	IL
1	Chicago Cut Steakhouse	Steakhouse	300 N LaSalle Dr	US	Chicago	United States	at Carroll Ave	807	[300 N LaSalle Dr (at Carroll Ave), Chicago, I...	[['label': 'display', 'lat': 41.88797208145695...	41.887972	-87.632909	60654	IL
6	Mortons Restaurant Group, Inc.	Office	325 N La Salle Dr	US	Chicago	United States	NaN	850	[325 N La Salle Dr, Chicago, IL 60654, United ...	[['label': 'display', 'lat': 41.88807682502838...	41.888077	-87.631838	60654	IL
7	Japanese Steak House & Sushi	Japanese Restaurant	120 Jackson Blvd.	US	Chicago	United States	NaN	869	[120 Jackson Blvd., Chicago, IL, United States]	[['label': 'display', 'lat': 41.8786912, 'lng'...	41.878691	-87.626053	NaN	IL
4	Smith & Wollensky	Steakhouse	318 N State St	US	Chicago	United States	at Marina City	967	[318 N State St (at Marina City), Chicago, IL ...	[['label': 'display', 'lat': 41.88757950530234...	41.887580	-87.628243	60654	IL

Geographical Information:

New York



Chicago



Conclusion:

In this analysis we determined the similarity of New York, New York and Chicago, IL in respect to the proximity of steakhouses to IBM's office locations. This analysis has provided us with an accurate picture of the locations of these restaurants and allowed us to view each city in relation to one another.