The Battle of Neighborhoods

Business problem

Glo-vate is a Global Business

Continuously considering new prospects internationally. Lately, the company desires to invest in a Restaurant Industry.

Interested in Manhattan, New York or Downtown, Toronto

Wants to compare the neighborhoods of the places and determine how parallel or different they are

Data description

Data will be fetched and explored of Manhattan, New York and Downtown, Toronto from Foursquare API.

Focused on restaurants, coffee shops and entertainment venues.

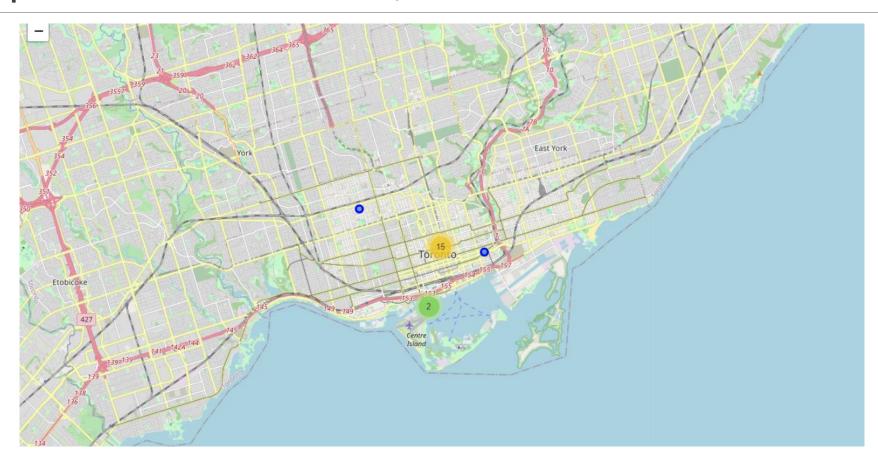
Neighborhood Segmentation and Clustering will be applied.

Which city is the better place for Glo-vate to invest in

Most Common Venues in both Cities

	Borough	Neighborhood	Latitude	Longitude	Cluster Labels	Co	st Most ommon Venue	2nd Most Common Venue	3rd Most Common Venue	4th Mo Comm Ven	on C	5th Most Common Venue	6th Most Common Venue	7th Most Common Venue	8th Most Common Venue	9th Most Common Venue	10th Most Common Venue
0	Manhattan	Marble Hill	40.876551	-73.910660	0	Coffe	e Shop	Yoga Studio	Gym	Dir	ner Dor	nut Shop	Seafood Restaurant	Pizza Place	Tennis Stadium	Pharmacy	Gym / Fitness Center
1	Manhattan	Chinatown	40.715618	-73.994279	1		Spa	Bakery	Cocktail Bar	Sandw Pla		English estaurant	Museum	Tea Room	Greek Restaurant	Pizza Place	Hotel
2	Manhattan	Washington Heights	40.851903	-73.936900	1		Café	Italian Restaurant	Park	Mari	ket	Bakery	Restaurant	Coffee Shop	Deli / Bodega	Burger Joint	Dog Run
3	Manhattan	Inwood	40.867684	-73.921210	1	Pe	et Store	Park	Bistro	Farme Mar		Bakery	Diner	Mexican Restaurant	Deli / Bodega	Wine Bar	Wine Shop
4	Manhattan	Hamilton Heights	40.823604	-73.949688	0	Yoga	Studio	Cocktail Bar	Café	Mexic Restaura		za Place	Caribbean Restaurant	Italian Restaurant	Wine Bar	Arts & Crafts Store	English Restaurant
	Postal Code	Borough	Neighborh	ood Latitu	de Lon	gitude	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Mo Commo Venu	on Comr		on Common	8th Most Common Venue	9th Most Common Venue	10th Most Common Venue
	2 M5A	Downtown Toronto	Regent P Harbourf	ark, 43.6542 front	60 -79.3	860636	0	Breakfast Spot	Gym / Fitness Center	Bakery	Restaura	int	Spa Cot Sl	fee Distribution nop Center	Park	Historic Site	Food Truck
	4 M7A	Downtown Toronto	en's Park, Ont Provir Governn	ncial 43.6623	01 -79.3	89494	0	Coffee Shop	Mexican Restaurant	Park	Creper	rie C	ts & Ital afts Restaur tore		Beer Bar	Distribution Center	Concert Hall
	9 M5B	Downtown Toronto	Garden Dist Ryer	trict, 43.6571 rson	62 -79.3	378937	3	Café	Tea Room	Music Venue	Plaz		rrito Col lace Si	mic Clothing nop Store	Thai Restaurant	Theater	Fountain
	15 M5C	Downtown Toronto	St. James To	own 43.6514	94 -79.3	375418	2	Coffee Shop	Gym	Gastropub	Restaura	ınt Japar Restau	ese Food Tr	uck Cosmetics Shop	Creperie	Middle Eastern Restaurant	Dance Studio
	20 M5E	Downtown Toronto	Berczy F	Park 43.6447	71 -79.3	373306	0	Cocktail Bar	Farmers Market	Park	Conce Ha		rant Muse	um Coffee Shop	Liquor Store	Fountain	Vegetarian / Vegan Restaurant

Map of Downtown, Toronto Clusters



Map of Manhattan, New York Clusters



Methodology

Processed data that includes Downtown, Toronto & New York, Manhattan

Python folium library to visualize geographic details.

The Foursquare API is used to utilize and explore the neighborhoods and segment them.

The LIMIT parameter is set to 20,

One Hot Encoding, is used in order to group data

K-means algorithm is used to cluster the neighborhoods.

k_cluster value of 5 was used to divided the neighborhoods into 5 different clusters

Discussion

Find out which city should Glo-vate invest in

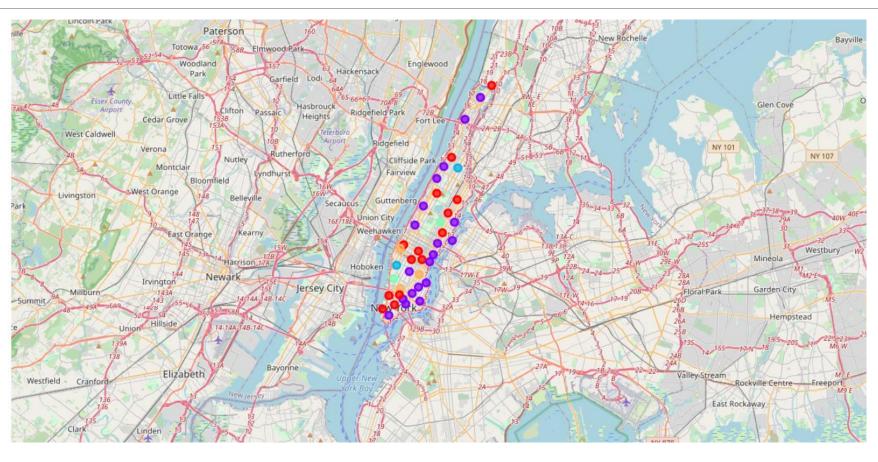
Manhattan, New York or Downtown, Toronto, Canada.

We analyze the clusters and see similar venues in both cities.

Top Restaurants in Downtown, Toronto



Top Restaurants in Manhattan, NY



Results & Conclusion

Manhattan, New York has more varied restaurants and entertainment venues than Downtown Toronto, Canada.

More than likely the area will attract more walk-ins and prospects.

The more diverse restaurants and cafes are in neighborhoods, the more individuals are exposed to different types of food, entertainment and cultures.

With the information presented, it would be recommended that Glo-vate invest in their Restaurant in Mahattan, New York.