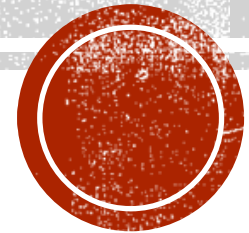


# **CAPSTONE PROJECT - THE BATTLE OF THE NEIGHBORHOODS**

**IBM Data Science Course on Coursera**



**Opening a Hotel in Toronto or New York**

# INTRODUCTION & BUSINESS PROBLEM

- Which neighborhood in Toronto or NewYork is best for opening a new hotel
- There are already many hotels in both cities
- Therefore search for the neighborhood with the lowest density of hotels
- This analysis should help hotel entrepreneurs



# DATA

- Following data is needed:
  - • the neighborhoods from both cities
  - • the coordinates from these neighborhoods (centre)
  - • number of hotels in each neighborhood
  
- Data is used from these platforms:
  - • Wikipedia (Neighborhoods)
  - • Geolocator library (coordinates)
  - • Json Datafile from New York
  - • Foursquare (information about hotels in each city)

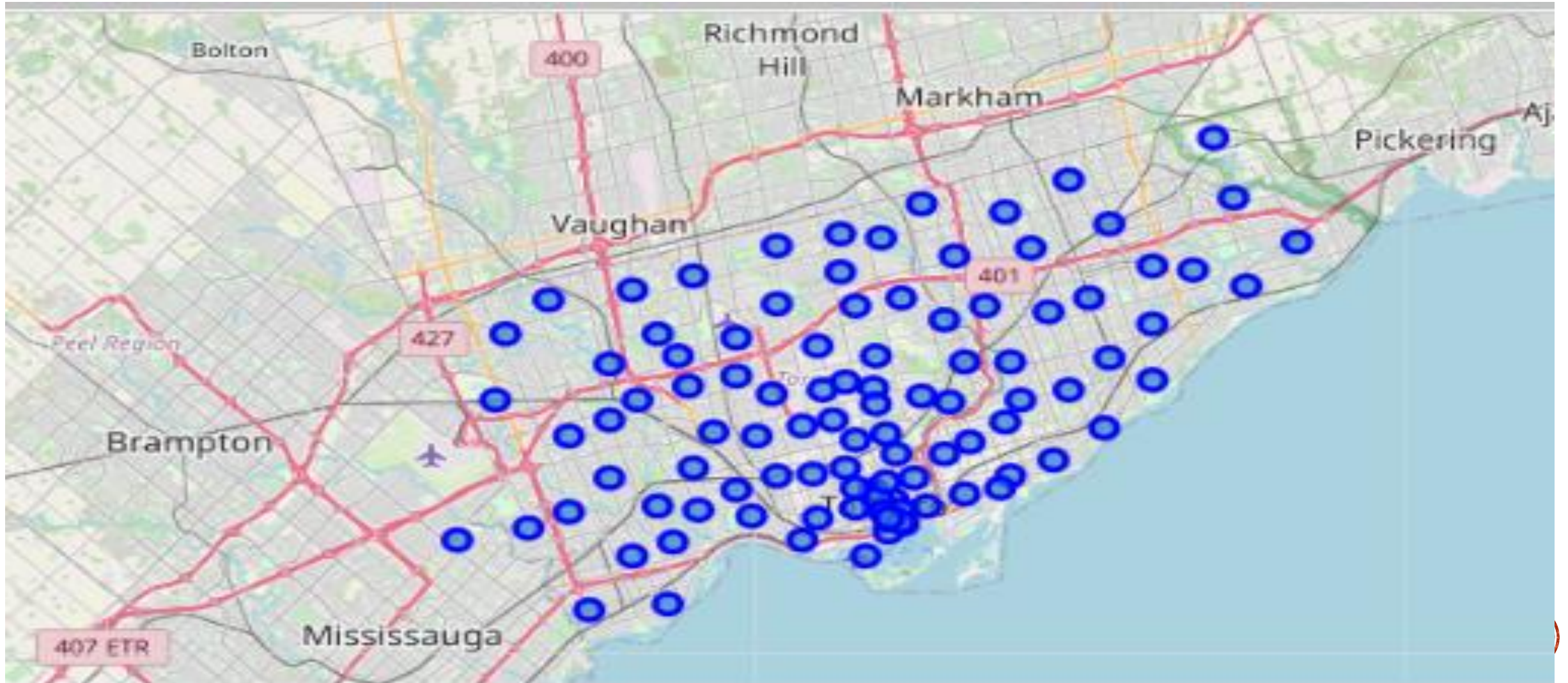


# TORONTO'S NEIGHBORHOODS

	PostalCode	Borough	Neighborhood	Latitude	Longitude
0	M3A	North York	Parkwoods	43.753259	-79.329656
1	M4A	North York	Victoria Village	43.725882	-79.315572
2	M5A	Downtown Toronto	Regent Park, Harbourfront	43.654280	-79.360636
3	M6A	North York	Lawrence Manor, Lawrence Heights	43.718518	-79.464763
4	M7A	Downtown Toronto	Queen's Park, Ontario Provincial Government	43.662301	-79.389494
5	M9A	Etobicoke	Islington Avenue	43.667856	-79.532242
6	M1B	Scarborough	Malvern, Rouge	43.806686	-79.194353
7	M3B	North York	Don Mills	43.745906	-79.352188
8	M4B	East York	Parkview Hill, Woodbine Gardens	43.706397	-79.309937
9	M5B	Downtown Toronto	Garden District, Ryerson	43.657162	-79.378937



# TORONTO'S NEIGHBORHOODS



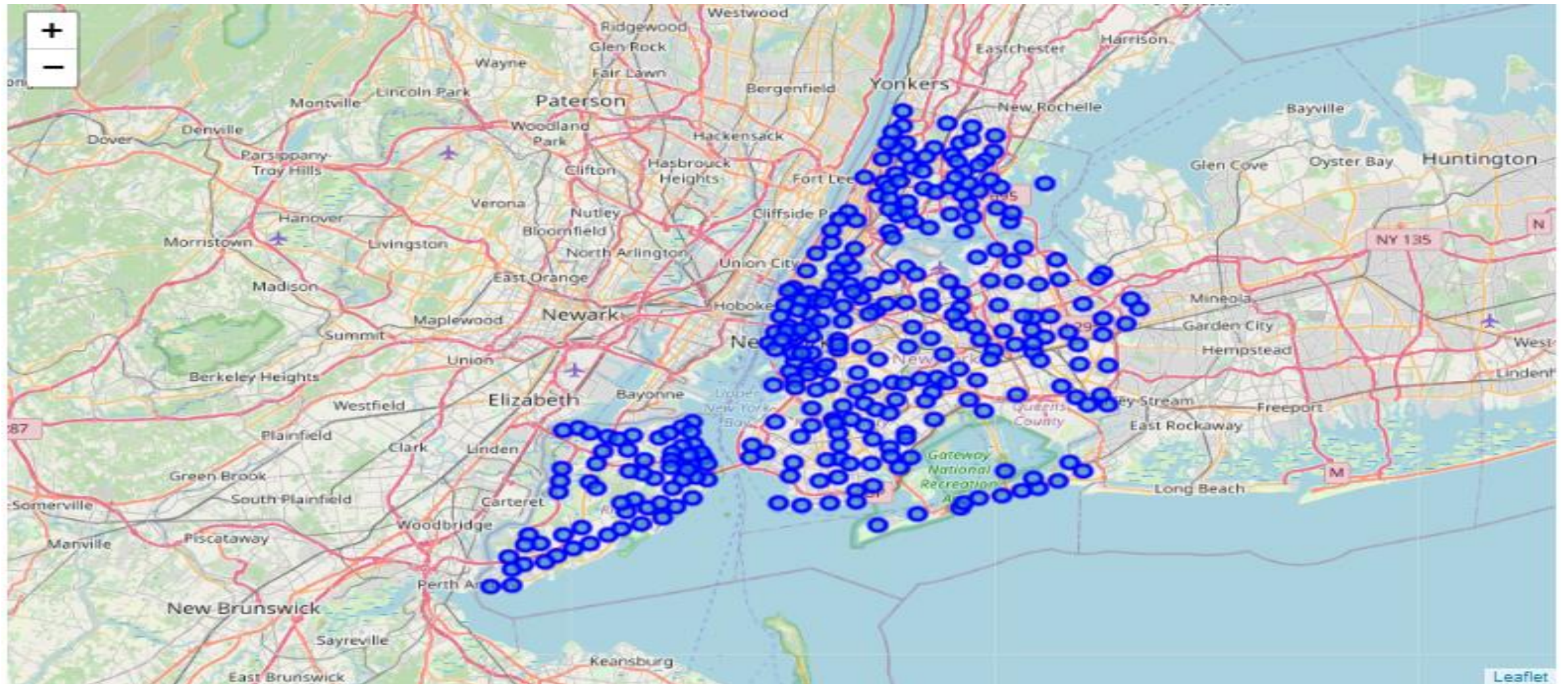
# NEW YORK'S NEIGHBORHOODS

	Borough	Neighborhood	Latitude	Longitude
0	Bronx	Wakefield	40.894705	-73.847201
1	Bronx	Co-op City	40.874294	-73.829939
2	Bronx	Eastchester	40.887556	-73.827806
3	Bronx	Fieldston	40.895437	-73.905643
4	Bronx	Riverdale	40.890834	-73.912585
5	Bronx	Kingsbridge	40.881687	-73.902818
6	Manhattan	Marble Hill	40.876551	-73.910660
7	Bronx	Woodlawn	40.898273	-73.867315
8	Bronx	Norwood	40.877224	-73.879391
9	Bronx	Williamsbridge	40.881039	-73.857446





# NEW YORK'S NEIGHBORHOODS



# POSSIBLE LOCATIONS - TORONTO

[4]:

	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
Neighborhood						
Bathurst Manor, Wilson Heights, Downsview North	1	1	1	1	1	1
New Toronto, Mimico South, Humber Bay Shores	1	1	1	1	1	1
India Bazaar, The Beaches West	1	1	1	1	1	1
Dufferin, Dovercourt Village	1	1	1	1	1	1
Downsview	1	1	1	1	1	1
High Park, The Junction South	1	1	1	1	1	1
Christie	1	1	1	1	1	1
Cliffside, Cliffcrest, Scarborough Village West	2	2	2	2	2	2
University of Toronto, Harbord	2	2	2	2	2	2



# POSSIBLE LOCATIONS — NEW YORK

	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
Neighborhood						
Allerton	1	1	1	1	1	1
Lefrak City	1	1	1	1	1	1
Kingsbridge Heights	1	1	1	1	1	1
Kingsbridge	1	1	1	1	1	1
Kew Gardens	1	1	1	1	1	1
Kensington	1	1	1	1	1	1
Jamaica Hills	1	1	1	1	1	1
Jamaica Center	1	1	1	1	1	1
Lindenwood	1	1	1	1	1	1
Woodlawn	1	1	1	1	1	1
Homecrest	1	1	1	1	1	1
Gowanus	1	1	1	1	1	1
Georgetown	1	1	1	1	1	1
Fresh Meadows	1	1	1	1	1	1
Fox Hills	1	1	1	1	1	1
Fort Greene	1	1	1	1	1	1
Flatbush	1	1	1	1	1	1
Manhattan	-	-	-	-	-	-

