

Capstone Project - The Battle of the Neighborhoods (Week 2)

Comparing cities Project: New York Vs Toronto

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Abstract

- Tourism aspect
- The needs for cities comparison
- Recommendation aspect

Data preparation 1

- Data for New York

	City	Borough	Neighborhood	Latitude	Longitude
0	New York	Bronx	Wakefield	40.894705	-73.847201
1	New York	Bronx	Co-op City	40.874294	-73.829939
2	New York	Bronx	Eastchester	40.887556	-73.827806
3	New York	Bronx	Fieldston	40.895437	-73.905643
4	New York	Bronx	Riverdale	40.890834	-73.912585

Data Preparation 2

- Data for Toronto

	City	Neighborhood	Borough	Latitude	Longitude
0	Toronto	Malvern, Rouge	North York	43.806686	-79.194353
1	Toronto	Rouge Hill, Port Union, Highland Creek	North York	43.784535	-79.160497
2	Toronto	Guildwood, Morningside, West Hill	Downtown Toronto	43.763573	-79.188711
3	Toronto	Woburn	North York	43.770992	-79.216917
4	Toronto	Cedarbrae	Downtown Toronto	43.773136	-79.239476

Using API Foursquare

	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	Walgreens	40.896528	-73.844700	Pharmacy
2	Wakefield	40.894705	-73.847201	Carvel Ice Cream	40.890487	-73.848568	Ice Cream Shop
3	Wakefield	40.894705	-73.847201	Rite Aid	40.896649	-73.844846	Pharmacy
4	Wakefield	40.894705	-73.847201	Dunkin'	40.890459	-73.849089	Donut Shop

Cluster analysis

- Final results

	Neighborhood	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
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Conclusion

Our study, although simple, is very revealing, in fact, it makes it possible to make a rigorous classification of two big cities, New York and Toronto in order to elucidate their potential resemblance and differences according to the categories of places of frequentation of the two cities. We can conclude that our study is of great importance as it will not only allow public decision makers in both cities to take the comparative advantages of these cities and make more rational policy recommendations in terms of tourism policies.