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The Battle of Neighborhoods

Problem

- I am moving to Toronto from Yorkville (MH, NY)

- Business problem is to find the area in Toronto, which is the most similar to Yorkville in terms of venues distribution and also a lot of gyms is a must, since I like to workout a lot and prefer a lot of options

Data

- List of venues of Yorkville - Manhattan,

- NYList of Boroughs and neighborhoods of Toronto with their geodata (latitud and longitud)

- List of venues of Toronto neighbourhoods

Methodology


```
----Yorkville----
                    venue   freq
0     Italian Restaurant    0.07
1                    Gym    0.06
2            Coffee Shop    0.05
3                    Bar    0.05
4            Pizza Place    0.04
5       Sushi Restaurant    0.04
6    Japanese Restaurant    0.03
7                  Diner    0.03
8              Wine Shop    0.03
9     Mexican Restaurant    0.03
```

- Calculate the most common venues in Yorkville

- Find out which boroughs and neighbourhoods are in Toronto

- For each neighbourhood find out which are the most common venues

- Compare venues distribution from all Toronto neighhbourhoods with venues distribution in Yorkville

Results

- Best match: **Sutton Plac**

- Euclid distance is 0.1

```
Distance: [[0.13490738]]
```

	Bank	Bar	Baseball Field	Baseball Stadium	Basketball Court	Basketball Stadium	Beach	Bed & Breakfast	Beer Bar	Beer Garden	Beer Store	Belgian Restaurant	Big Box Store	
	0.01	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.02	0.01	0.0	0.0	

Discusion

- straigth-forward process luckly

- data was well prepared from the begining but we still had to do some manual exploration and transformations

- would recommend this solution for anyone, who wants to see, which neighborhood is the most similar to one - for traveling, living or other purposes

Conclusion

- happy with the results

- achieve goals I set at the beginning

- able to make decision where to move