

Capstone project

Data Description

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Our first task is to determine place that have minimum of crimes ,and locate it , we collected data of crime in Toronto for each neighbors in tornado from :

<http://data.torontopolice.on.ca/datasets/neighbourhood-crime-rates-boundary-file-/data>.

This data contains neighbors and average of crimes for each type of it since 2014 to 2019.

	Neighbourhood	Hood_ID	Population	Assault_AVG	AutoTheft_AVG	BreakandEnter_AVG	Homicide_AVG	Homicide_CHG	Robbery_AVG	TheftOver_AVG
0	Yonge-St.Clair	97	12528	31.0	4.3	23.3	0.0	0.0	5.7	4.3
1	York University Heights	27	27593	333.2	106.3	113.2	0.8	-1.0	75.8	36.3
2	Lansing-Westgate	38	16164	70.7	23.7	38.8	1.7	-1.0	14.7	7.0
3	Yorkdale-Glen Park	31	14804	160.2	55.5	63.3	1.2	-0.5	31.5	22.5
4	Stonegate-Queensway	16	25051	83.2	28.7	52.8	0.0	0.0	20.7	6.0
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135	Milliken	130	26572	83.8	58.5	108.3	0.2	1.0	32.7	16.5
136	Pleasant View	46	15818	46.0	13.5	19.8	0.2	0.0	11.8	3.8
137	Wychwood	94	14349	70.2	13.2	34.0	0.3	0.0	13.8	2.3
138	Leaside-Bennington	56	16828	32.8	18.2	33.3	0.2	0.0	7.5	5.2
139	Briar Hill-Belgravia	108	14257	73.7	18.2	36.7	0.2	0.0	21.5	5.0

We will classify all this neighbors to see the neighbors that have not much crimes ,and we gonna not forget feature of population , then we need for each neighbor coordination to search most liked restaurant and see with type of dish produce then we will use this data , we got it from :

https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada

and file from coursera.

	PostalCode	Borough	Neighbourhood	Latitude	Longitude
0	M1B	Scarborough	Rouge, Malvern	43.8067	-79.1944
1	M1C	Scarborough	Highland Creek, Rouge Hill, Port Union	43.7845	-79.1605
2	M1E	Scarborough	Guildwood]], Morningside, West Hill	43.7636	-79.1887
3	M1G	Scarborough	Woburn	43.771	-79.2169
4	M1H	Scarborough	Cedarbrae	43.7731	-79.2395
5	M1J	Scarborough	Scarborough Village	43.7447	-79.2395
6	M1K	Scarborough	East Birchmount Park, Ionview, Kennedy Park	43.7279	-79.262
7	M1L	Scarborough	Clairlea, Golden Mile, Oakridge	43.6915	-79.2866
8	M1M	Scarborough	Cliffcrest, Cliffside, Scarborough Village West	43.7163	-79.2395
9	M1N	Scarborough	Birch Cliff, Cliffside West	43.6927	-79.2648

Then we will use foursquare to get all restaurants in safe neighbors with good population:

	Neighbourhood	Neighbourhood Latitude	Neighbourhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
0	Rouge, Malvern	43.806686	-79.194353	Wendy's	43.807448	-79.199056	Fast Food Restaurant
1	Highland Creek, Rouge Hill, Port Union	43.784535	-79.160497	Royal Canadian Legion	43.782533	-79.163085	Bar
2	Highland Creek, Rouge Hill, Port Union	43.784535	-79.160497	Affordable Toronto Movers	43.787919	-79.162977	Moving Target
3	Guildwood]], Morningside, West Hill	43.763573	-79.188711	Swiss Chalet Rotisserie & Grill	43.767697	-79.189914	Pizza Place
4	Guildwood]], Morningside, West Hill	43.763573	-79.188711	G & G Electronics	43.765309	-79.191537	Electronics Store
5	Guildwood]], Morningside, West Hill	43.763573	-79.188711	Big Bite Burrito	43.766299	-79.190720	Mexican Restaurant
6	Guildwood]], Morningside, West Hill	43.763573	-79.188711	Enterprise Rent-A-Car	43.764042	-79.193371	Rental Car Location
7	Guildwood]], Morningside, West Hill	43.763573	-79.188711	Woburn Medical Centre	43.766631	-79.192286	Medical Center
8	Guildwood]], Morningside, West Hill	43.763573	-79.188711	Eggsmart	43.767800	-79.190466	Breakfast Spot
9	Woburn	43.770992	-79.216917	Starbucks	43.770037	-79.221156	Coffee Shop

Conclusion:

With this data will make as to classify neighbors by average of crimes ,which will make us to knew the safe places. Then use foursquare api to see best dishes , witch gonna make my client product it in chosen safe place .

