

Where to Eat Pizza in Toronto

Introduction :

1) Description of The Problem and Discussion of The Background :

The Problem :

Where You Should Go to Eat a Great Pizza in Toronto ?

Description of The Problem :

Many Tourists and People from different cities come to visit Toronto and they don't know the best places to visit in result of that they don't know the best Pizza restaurant they can visit to Eat a good Pizza with it's different kinds as a result they visit any restaurant that is nearby them.

Discussion of The Background :

Toronto is the provincial capital of Ontario. With a recorded population of 2,731,571 in 2016, it is the most populous city in Canada and the fourth most populous city in North America. The city is the anchor of the Golden Horseshoe, an urban agglomeration of 9,245,438 people (as of 2016) surrounding the western end of Lake Ontario.

Toronto is Welcoming over 27.5 million visitors annually, Toronto is the leading tourism destination in Canada. This bold, dynamic city offers superb attractions, music and events backed by the best convention and sports facilities in Canada.

According to some reports Toronto is considered one of the most cities that are popular with pizza accurately The Best City that serve Pizza in Canada ! and the 14th in the World ! and that show us that Toronto almost has all kind of pizza and serve it and they also have a special way for cooking it .

Toronto probably isn't the first place that comes to mind when you think pizza. Let's fix that. The Greater Toronto Area (GTA, all day!) is one of the world's best food cities. Pizza definitely gets its due in the Canadian city by the lake, a melting pot of the world's cuisines.

Data Section

2) Description of The Data and how it will be used to solve the problem :

1)) I will use Wikipedia to get the information about neighborhoods in Toronto .
Like : their Names, Postal Code, and Boroughs. For that i will use "List of postal codes of Canada: M" :

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

2)) I will use this link to a csv file that has the geographical coordinates of each postal code

Link : http://cocl.us/Geospatial_data

3)) I will use the FourSquare API to collect data about locations of Pizza stores and find the best pizza restaurants for you.

Methodology section

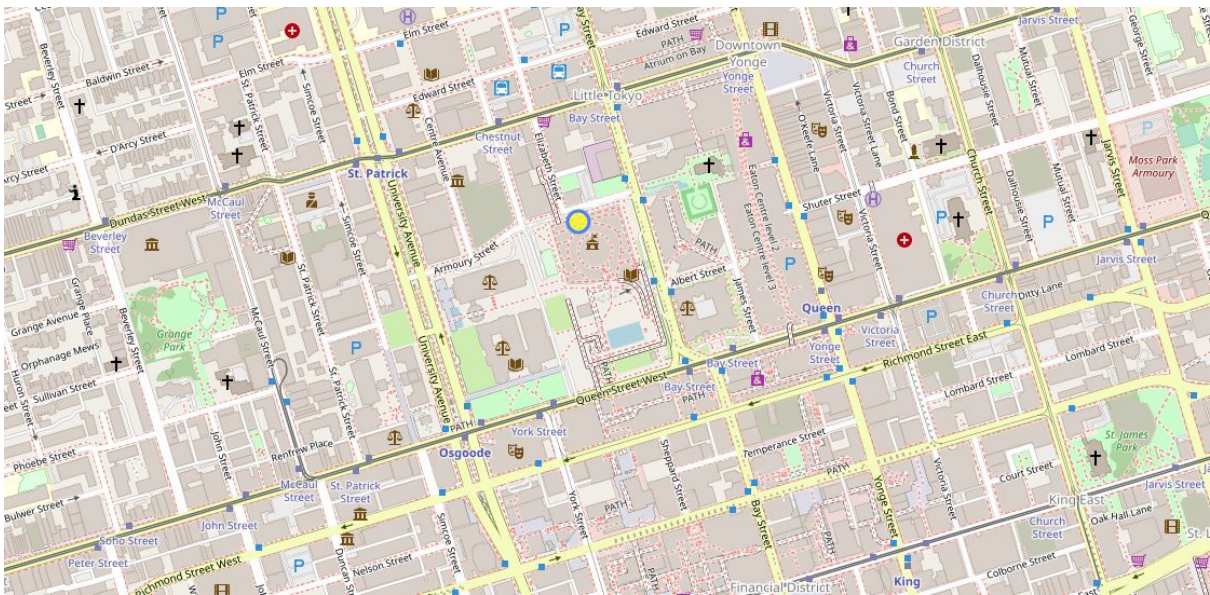
My main target is to find the BEST Place that is selling Pizza and in the other side the most close from you ,so let's say that you are in the middle of Toronto and you are a tourist or you are not from Toronto therefore you don't know the best place for you and you don't know the most close place for you , so that i will use the latitude and the longitude of the middle of Toronto and then i will use the CSV file that has the geographical coordinates of each postal code and i will use Foursquare api to explore every place that is selling pizza in Toronto then i will generate a map of them showing you your position and the pizza places in Toronto using folium.

After that i will reduce the number of the pizza places to the top 10 most close from you and i will generate a map of that to display them using folium library and i will make a bar and barh to compare between them from the distance from you.

Next i will use Foursquare api to get the rates of the top 10 most close from you and there will be places without rates so will choose which has rates and make a bar to compare between them from the rates and distances and then choose the one that has the highest rate from them.

Results:

Your position (middle of Toronto) :



Data Frame of the places that is selling pizza :

	categories	hasPerk	id	location.address	location.cc	location.city	location.country	location.crossStreet	location.distance	k
0	[[{"id": "4bf58dd8d48988d1ca941735", "name": "P..."}]]	False	4b2438f6f964a520126424e3	260 CHURCH STREET	CA	Toronto	Canada	NaN	637	
1	[[{"id": "4bf58dd8d48988d1ca941735", "name": "P..."}]]	False	552ff1d1498e5f41b0ccb3bd	127 Yonge St	CA	Toronto	Canada	NaN	566	
2	[[{"id": "4bf58dd8d48988d1ca941735", "name": "P..."}]]	False	4ca62112f47ea14380845d21	65 Front St. W	CA	Toronto	Canada	Union Station	943	
3	[[{"id": "4bf58dd8d48988d1ca941735", "name": "P..."}]]	False	59f28358acb00b73e36783d6	67 Richmond St E	CA	Toronto	Canada	NaN	770	
4	[[{"id": "4bf58dd8d48988d1ca941735", "name": "P..."}]]	False	4af5d85f964a520b2fd21e3	429A Yonge St	CA	Toronto	Canada	at College St	715	
5	[[{"id": "4bf58dd8d48988d10941735", "name": "I..."}]]	False	5690363d498e0b868217831d	232 Wellington St W	CA	Toronto	Canada	NaN	1055	
6	[[{"id": "4bf58dd8d48988d1ca941735", "name": "P..."}]]	False	4b5fdb7f964a520e8ce29e3	447 Church St.	CA	Toronto	Canada	at Alexander St.	1147	
7	[[{"id": "4bf58dd8d48988d1ca941735", "name": "P..."}]]	False	4dde735f7d8bb03c06b3db73	250 Front St W Unit 1c201	CA	Toronto	Canada	John St	1155	
8	[[{"id": "4bf58dd8d48988d1ca941735", "name": "P..."}]]	False	4af23cabf964a520d4e621e3	37 Blue Jays Way	CA	Toronto	Canada	NaN	1170	
9	[[{"id": "4bf58dd8d48988d10941735", "name": "I..."}]]	False	4cdd3afb79ddfd040f929498	93 Front St. E.	CA	Toronto	Canada	St Lawrence Market (Upper Level 36)	1194	

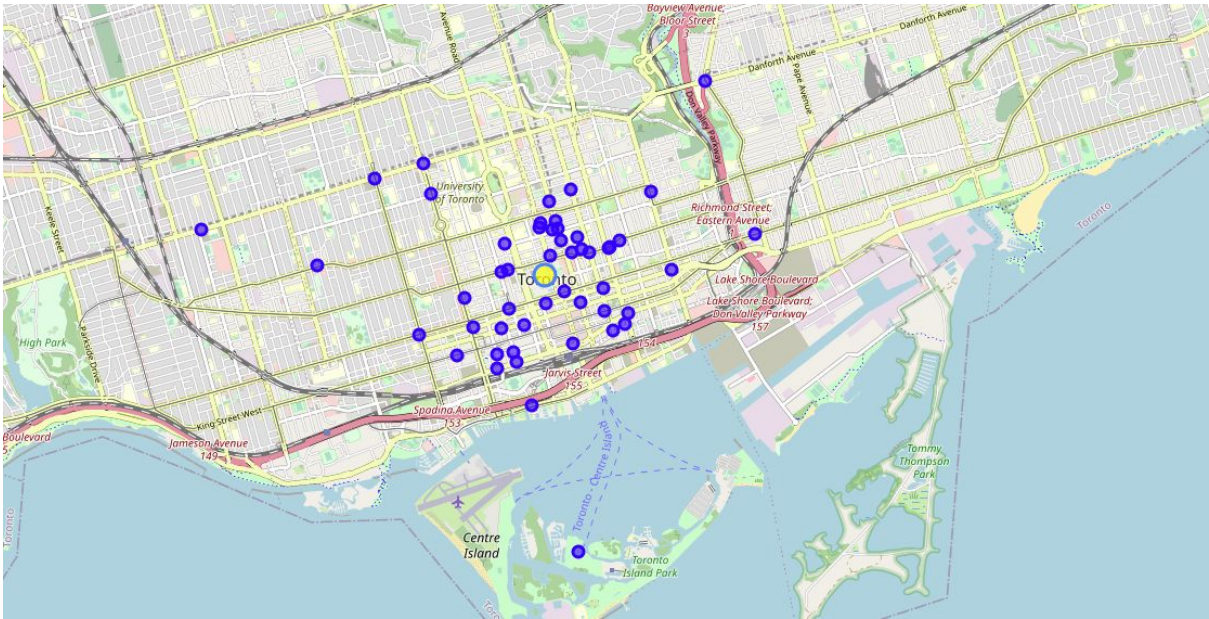
Filtered Data Frame :

	name	categories	address	cc	city	country	crossStreet	distance	formattedAddress	labeledLatLngs	lat	lng	neighborhood	postalCode	state
0	Pizza	Pizza Place	260 CHURCH STREET	CA	Toronto	Canada		637	[260 CHURCH STREET, Toronto ON M5B 1Z2, Canada]	[[{"label": "display", "lat": 43.65651263631174...	43.656513	-79.377242	NaN	M5B 1Z2	ON 4b2438f8f964a52012f
1	Mamma's Pizza	Pizza Place	127 Yonge St	CA	Toronto	Canada		566	[127 Yonge St, Toronto ON M5C 1W4, Canada]	[[{"label": "display", "lat": 43.650891, "lng":...	43.650891	-79.378632	NaN	M5C 1W4	ON 552ff1d1498e5f41b0u
2	Pizza 2 Go	Pizza Place	65 Front St. W	CA	Toronto	Canada	Union Station	943	[65 Front St. W (Union Station), Toronto ON M5...	[[{"label": "display", "lat": 43.64808978691595...	43.646090	-79.379776	NaN	M5J	ON 4ca62112f47ea14380c
3	Domino's Pizza	Pizza Place	67 Richmond St E	CA	Toronto	Canada		770	[67 Richmond St E, Toronto ON M5C 1N9, Canada]	[[{"label": "display", "lat": 43.65245635983421...	43.652456	-79.374938	NaN	M5C 1N9	ON 59f82358ac0b0b73e3fc
4	Amato Pizza	Pizza Place	429A Yonge St	CA	Toronto	Canada	at College St	715	[429A Yonge St (at College St), Toronto ON M5T 1G3, Canada]	[[{"label": "display", "lat": 43.66021482917061...	43.660215	-79.382571	NaN	NaN	ON 4af5d85f964a520b2c

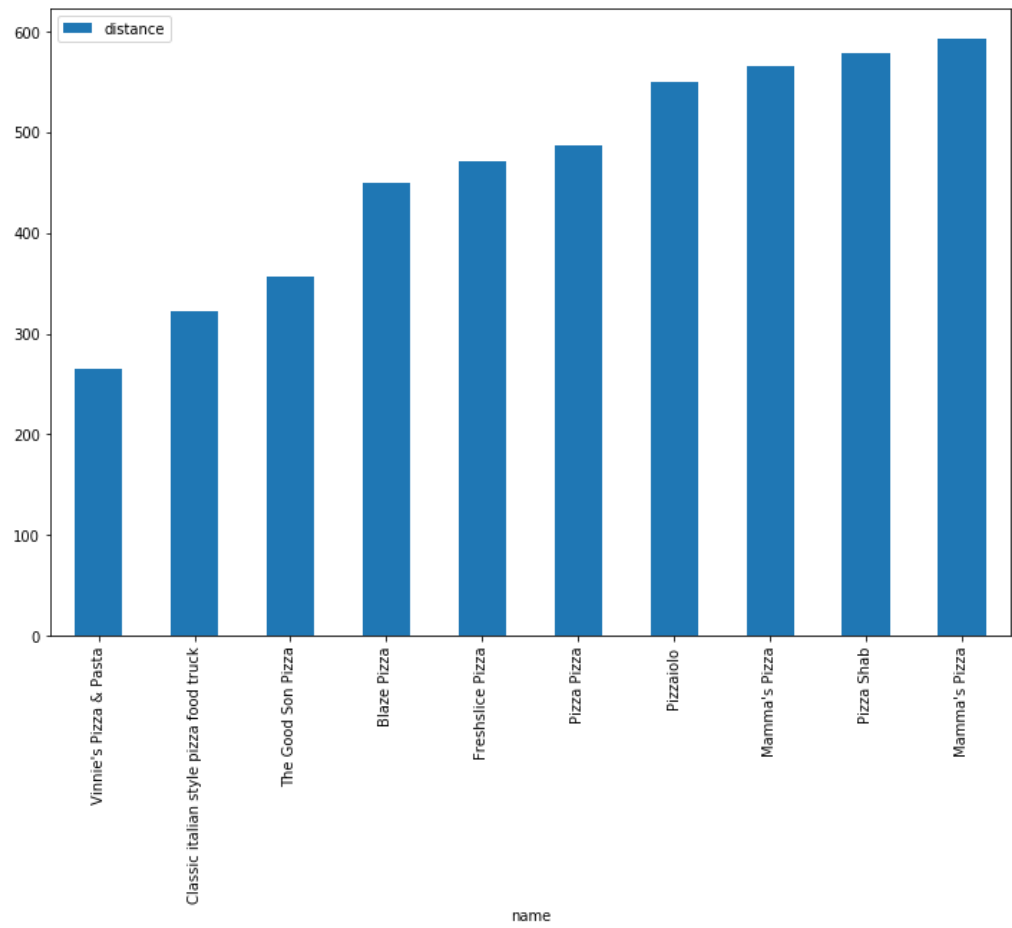
List of Pizza places in Toronto :

0		Pizza Pizza		
1		Mamma's Pizza		
2		Pizza 2 Go		
3		Domino's Pizza		
4		Amato Pizza		
5		JZs Pizza		
6		Boston Pizza		
7		Express Pizza		
8	Pizza Rustica Restaurant & Bar			
9	St. Lawrence Pizza and Pasta			
10		Pizza Nova		
11		Mamma's Pizza		
12		Mamma's Pizza		
13		241 Pizza		
14		Pizza Pizza	33	Domino's Pizza
15		241 Pizza	34	Pizza Pizza
16		Pizzaiolo	35	Pizza Hut
17	Papa Ceo Fine Italian Foods & Pizza		36	Boston Pizza
18		Pizza Pizza	37	Freshslice Pizza
19		Pizza Shab	38	Delisso Pizza & Wings
20		Pizza Pizza	39	Mamma's Pizza
21	Vinnie's Pizza & Pasta		40	Pizza Pizza
22		Pizza Pizza	41	Pizza & Pasta
23	Classic italian style pizza food truck		42	Colombo's Pizza
24		Pizza Forno	43	Andrew's Pizza
25		Pizza Pizza	44	Pizza Pizza
26	The Good Son Pizza		45	Pizza Pizza
27		Pizza Rustica	46	Za Pizza Bistro
28		Pizza Nova	47	Pizza Pizza
29		Blaze Pizza	48	King David Pizza
30		Pizza Pizza	49	Papa John's Pizza
31		Pizzaiolo		
32	Big Trouble Pizza			

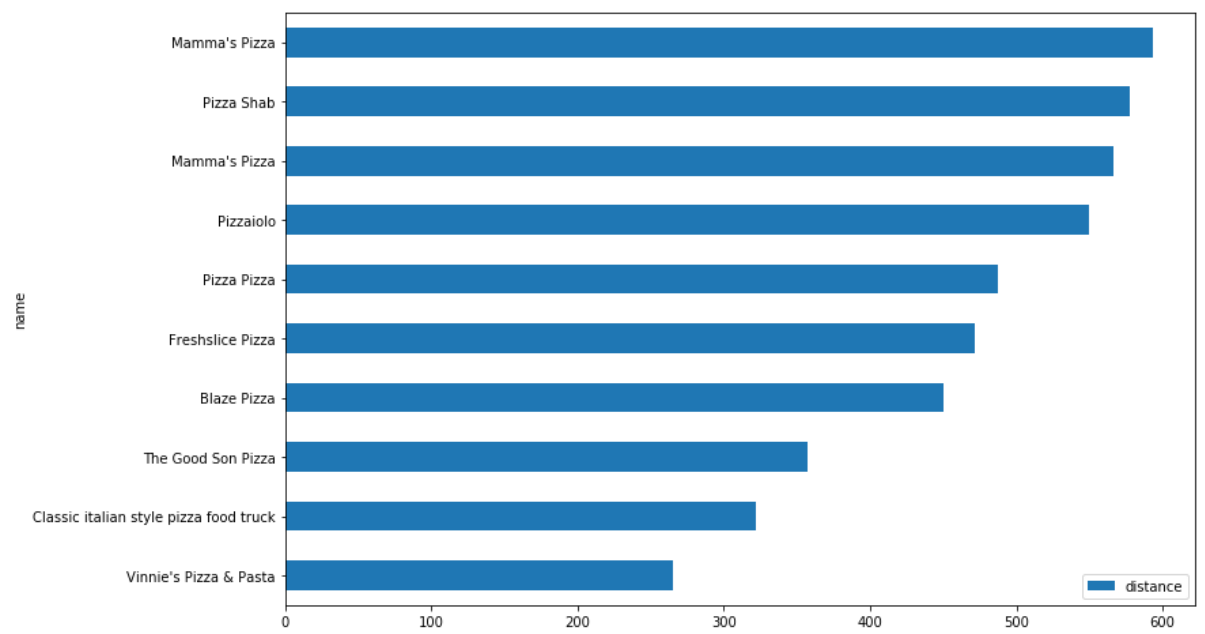
Map of all pizza places in Toronto :



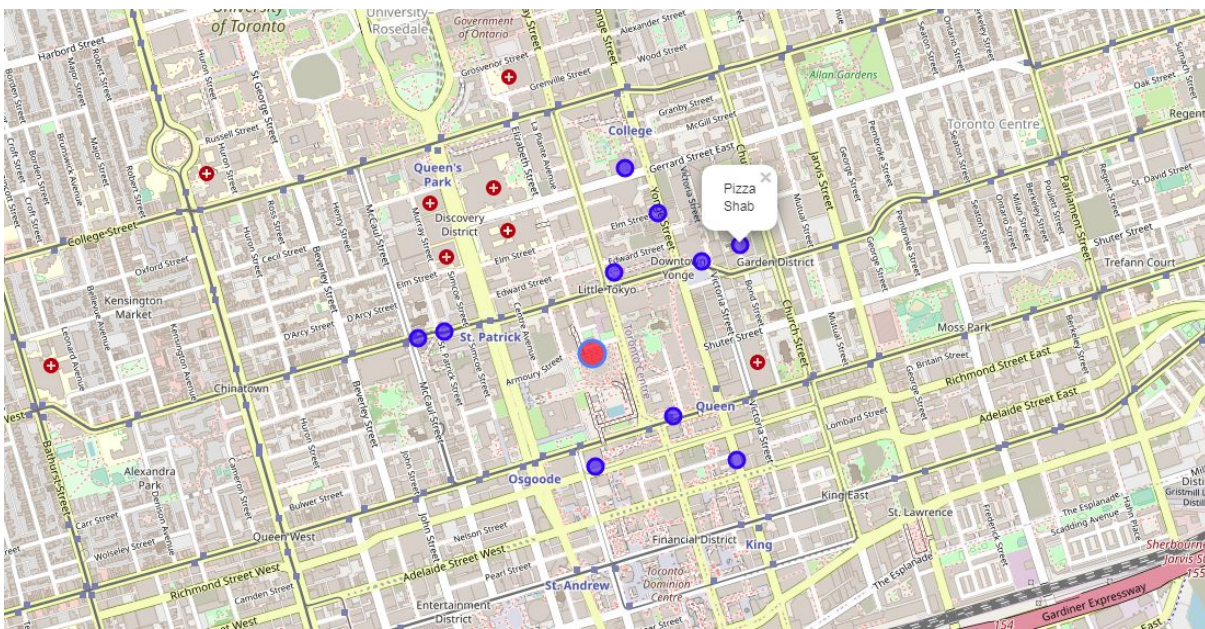
Bar plot of the most near 10 places of pizza and a comparison between them from distances :



Horizontal Bar plot of the most near 10 places of pizza and a comparison between them from distances :



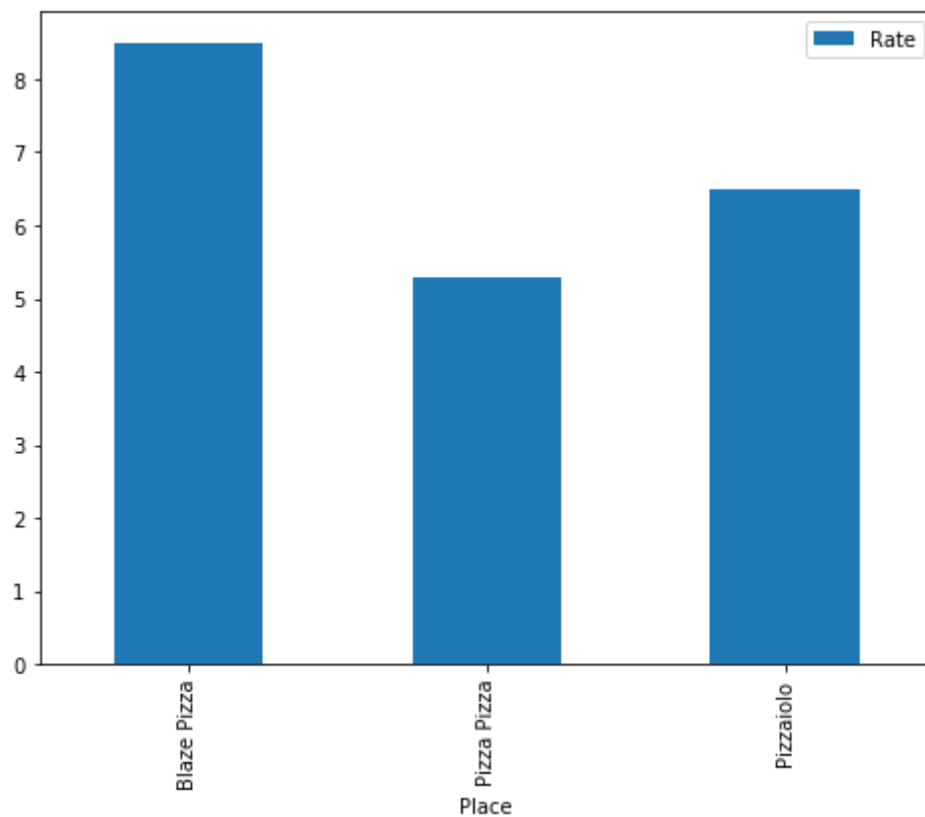
Map of the most near 10 places of pizza :



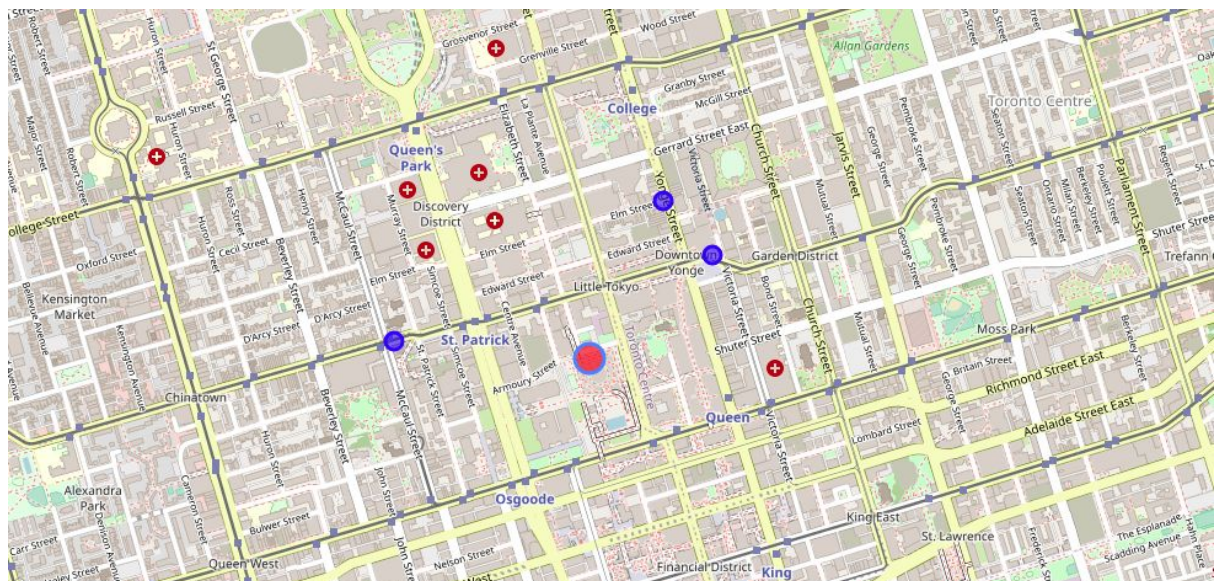
Data frame of the three places that have ratings :

	Place	Rate	latitude	longitude
0	Blaze Pizza	8.5	43.656518	-79.380015
1	Pizza Pizza	5.3	43.657879	-79.381729
2	Pizzaiolo	6.5	43.654332	-79.391107

Bar plot of the Top 3 that have ratings :



Map of the Top 3 that have ratings :



Discussion section

There is many places to eat pizza their but sure there are good places and bad places therefore you should choose the right place for you from quality and distance from you.

Conclusion section

As we can see from the results we can conclude that there is one place that have the both qualities that we want (High Ratings and Near) which is "Blaze Pizza" ,so that i recommend you to visit it.