Trends and Possibilities in the city of New York & Comparison of neighborhoods of Toronto and New York.

A. Introduction

A.1 Introduction & Discussion Background

The **City of New York**, is the most populous city in the United States. With an estimated 2018 population of 8,398,748 distributed over a land area of about 302.6 square miles (784 km²), New York is also the most densely populated major city in the United States.¹ Located at the southern tip of the state of New York, the city is the center of the New York metropolitan area, the largest metropolitan area in the world by urban landmass and one of the world's most populous megacities with an estimated 19,979,477 people in its 2018 Metropolitan Statistical Area and 22,679,948 residents in its Combined Statistical Area A global power city New York City has been described as the cultural, financial and media capital of the world, and exerts a significant impact upon commerce, entertainment, research, technology, education, politics, tourism, art, fashion, and sports. The city's fast pace has inspired the term *New York minute* Home to the headquarters of the United Nations headquarters, New York is an important center for international diplomacy.

Situated on one of the world's largest harbors New York City consists of five boroughs, each of which is a separate county of the state off New York The five boroughs – Brooklyn, Queens, Manhattan, The Bronx, and Staten Island – were consolidated into a single city in 1898. The city and its metropolitan area constitute the premier gateway for legal immigration to the United States. As many as 800 languages are spoken in New York, making it the most linguistically diverse city in the world. New York City is home to more than 3.2 million residents born outside the United States, the largest foreign-born population of any city in the world.] As of 2019, the New York metropolitan area is estimated to produce a gross metropolitan product (GMP) of US\$1.9 trillion. If greater New York City were a sovereign state, it would have the 12th highest GDP in the world. New York is home to the highest number of billionaires of any city in the world.

Being such a most populous and important center for international diplomacy, it is very interesting to explore the important places to visit and dine-in, in this city. One of the greatest cities in the world, New York is always a whirlwind of activity, with famous sites at every turn and never enough time to see them all. Some people come here to enjoy the **Broadway shows**; others come specifically to **shop and dine**; and many come simply to see the sites: The **Statue of Liberty**, **Empire State Building**, **Brooklyn Bridge**, **Central Park**, historic neighborhoods, and numerous world-famous museums. Many of the best places to visit in New York are within walking distance of each other, or just a short ride away, making this city a delight for sightseeing.

When we consider all these points it is very interesting to explore the important places to visit and dine-in, in this city, also trending venues and their rating using some machine learning techniques and Foursquare API. An attempt is made to give short description and comparison about the neighborhoods of an adjacent city Toronto.

A2. Data Description

To study the above problem, found the neighborhood data of cities New York and Toronto. Referred some websites related to city of New York to collect some data about latest trends and situations. Used Google map and some other search options to search nearby locations and other details. Used Foursquare API to get most common venues near our places of interest. Used GitHub repositories to showcase the details.

B. Methodology

My data has main components, venue name, categories, neighborhood, borough, longitude and latitude for the cities under study.

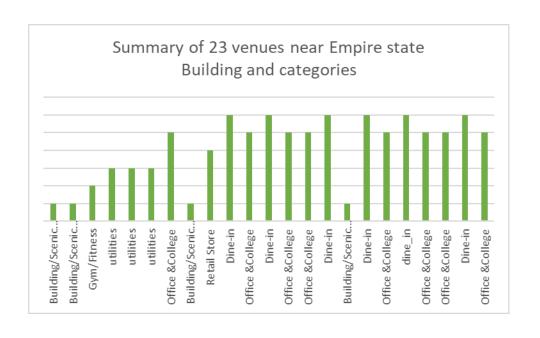
I used python **folium** library to visualize geographic details of New York and its boroughs and I created a map of New York with places to visit near Empire State Building superimposed on top. I used latitude and longitude values to get the visual as below:



I utilized the Foursquare API to explore the boroughs and segment them. I designed the limit as 50 venue and the radius 500 meter for each borough from their given latitude and longitude information. Here is a head of the list Venues name, category, latitude and longitude information from Foursquare API.

In summary of this data **23** venues were returned by Foursquare. Here is a merged table.

name	categories	address	сс	city	country	crossStr eet	distan ce	formattedAddress	labeledLatLng s	lat	Ing	neighborhoo d	postalC ode	state	id
Empire State Building	Building	350 5th Ave	US	v York	d States	& 34th St	42	4th St), New York,	NaN	40.7486	-73.986	New York, NY	10118	NY	c291fe3
loor Observation Deck	Scenic Lookout	350 5th Ave	US	w York	d States	k 34th Sts	39	th Sts), New York,	44544481811	40.748445	-73.986	NaN	10118	NY	169491
ire State Building Gym	Gym / Fitness Center	ourse Level	US	v York	d States	h & 5th St	25	Level (34th & 5th	44365858246	40.748444	-73.985	NaN	10118	NY	0b855cc
Empire State Building	Bus Line	NaN	US	w York	d States	W 31st St	229	rk, NY, United Sta	74665548, 'Ing	40.746655	-73.986	NaN	NaN	NY	784540
Bank of America	Bank	350 5th Ave	US	v York	d States	at 34th St	17	w York, NY 10118,	69263344692	40.748693	-73.986	NaN	10118	NY	3720e3
Empire State Building	None	350 5th Ave	US	v York	d States	NaN	40	118, United States]).748463, 'Ing':	40.748463	-73.986	NaN	10118	NY	la70cd2
The Empire State Bui	Office	350 5th Ave	US	v York	d States	NaN	44	118, United States]	26484276548	40.748265	-73.985	NaN	10118	NY	349691
2nd Floor Observatory	Scenic Lookout	350 5th Ave	US	v York	d States	k 34th Sts	36	th Sts), New York,	46452327151	40.748465	-73.986	NaN	10118	NY	c2ab32
Empire State Building	Electronics Store	350 5th Ave	US	v York	d States	4th street	56	w York, NY 10118	22265493004	40.748223	-73.985	NaN	10118	NY	342c1ffd
pire state building grill	American Restaurant	NaN	US	v York	d States	NaN	200	, NY, United States]).750064, 'Ing':	40.750064	-73.984	NaN	NaN	NY	53d5bf6
Shutterstock	Tech Startup	350 5th Ave	US	v York	d States	3rd Street	49	w York, NY 10118	39196047307	40.748392	-73.986	NaN	10118	NY	6ba4a8
Tacombi	Taco Place	3 W 33rd St	US	v York	d States	NaN	83	018, United States]	44308037416	40.748443	-73.986	Koreatown	10018	NY	9d9a73
Imperial Jets	Office	350 5th Ave	US	v York	d States	Building	36	uilding), New York	36237872525	40.748362	-73.985	NaN	10118	NY	15b662
rs at The Empire Stat	Office	350 5th Ave	US	v York	d States	0th Floor	76	w York, NY 10118,	03725830298	40.748037	-73.985	NaN	10118	NY	aee8e0
Juice Press	Juice Bar	ve, Ste 131	US	v York	d States	at 33rd St	77	3rd St), New York,	95832536063	40.747958	-73.985	NaN	10118	NY	:5037da
Empire State Building	Building	350 5th Ave	US	v York	d States	NaN	113	118, United States]).747695, 'Ing':	40.747695	-73.985	NaN	10118	NY	3a590b
Chipotle Mexican Grill	Mexican Restaurant	Ave Lbby 6	US	v York	d States	ixth Aves.	115	t. between Fifth &).748524, 'Ing':	40.748524	-73.987	NaN	10118	NY	f4620e3
n International English	Language School	ve Ste 6308	US	v York	d States	NaN	58	rk, NY 10118, Uni	30875964988	40.748309	-73.986	NaN	10118	NY	35c5434
h St/Empire State Bldg	Hotel	9 W 35th St	US	v York	d States	NaN	206	001, United States]	29681237195	40.750297	-73.986	NaN	10001	NY	23f20e3
stitute Empire Building	ral College & University	NaN	US	w York	d States	NaN	305	001, United States]	12997319169	40.74813	-73.989	NaN	10001	NY	25150d
Jimlar	Office	NaN	US	w York	d States	NaN	62	118, United States]	09653255642	40.748097	-73.985	NaN	10118	NY	bf35645
Au Bon Pain	Bakery	350 5th Ave	US	w York	d States	E 33rd St	56	ew York, NY 1011	15532374475	40.748155	-73.985	NaN	10118	NY	fc818ee
LR Corporate	Office	350 5th Ave	US	w York	d States	Building	148	uilding), New York	0.74801, 'lng':	40.74801	-73.987	NaN	10118	NY	:11610b



Throughout its history, New York City has served as a main port of entry for many immigrants, and its cultural and economic influence has made it one of the most important urban areas in the United States and the world. And our data also make it clear why this place is important for visitor who is interested in visiting historic places.

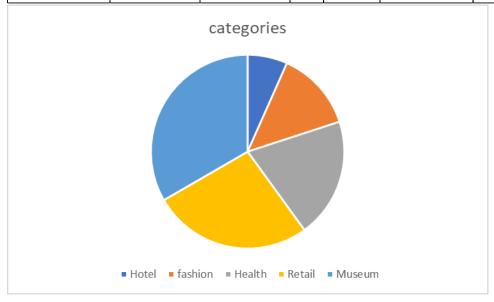
Let's now explore about the dine-in options nearby
As a part of some common interest checked for *PIZZA* destination nearby.
And below are the 50 destinations turned out using Foursquare API

							1	formattedAddre				neighborho	postalC		
name Little Italy Pizza	categories Pizza Place	address 2 E 33rd St	US	City	United	at 5th Ave	distance	5th Ave), New	labeledLatLngs (trauer : dispray ; 'lat':	lat 40.747689	-73.984883	od NaN	ode 10016	state	id 49dceb2ff964a5
Fresh Pizza 99		Avenue of		York New	States			York, NY Tro32 Menue or the Americas,	40.7476889765 π ιαυθΩ'dispray, 'lat':						20be5f1fe3 5851a76b0393c
Cents	Pizza Place	the	US	York	States	NaN	468	New York, NY	40.7528585739 8022 [('label': 'display,	40.752859	-73.985634	NaN	10018	NY	c0b7003d204
Bravo Pizza	Pizza Place	107 W 37th St	US	New York	United States	at Broadway	444	(at Broadway), New York, NY (16 W Shiri St	Tat: 40.752163, Ting:	40.752163	-73.987817	Garment District	10018	NY	4a6a002ef964a 52058cc1fe3
Café Bonjour Deli & Pizza	Deli / Bodega	18 W 38th St	US	New York	United States	5th Avenue	327	(5th Avenue), New York, NY	Tat: 40.7513498441 ((rau 0)?.45ispray,	40.75135	-73.983762	NaN	10018	NY	4c163ecaa9c22 0a1f34a5a9d
Penn Pizza	Pizza Place	33rd St Penn Station	US	New York	United States	Between 7th & 8th	305	[33rd St Penn Station (Between 7th & 8th), New	"lat": 40.7484299432	40.74843	-73.988917	NaN	10001	NY	4b05e0a8f964a 520ffe422e3
Sabinas Pizza	Pizza Place	150 W 36th St	US	New York	United States	btw Broadway & 7th Ave.	417	[150 W 36th St (btw Broadway & 7th Ave.), New	"lat": 40.7513697876	40.75137	-73.988716	NaN	10018	NY	4b16b831f964a 52080bc23e3
Jimmy's New York Style Pizza Store in	Pizza Place	Macy's 34th St	US	Manhatta n	United States	NaN	378	[Macy's 34th St, Manhattan, NY,	(rab 8∩: display, lat: 40.7519650727	40.751965	-73.98634	NaN	NaN	NY	534440c5498ee 031ceec8d89
Macys Jimmys Pizza	Pizza Place	151 W 34th St	US	New York	United States	btwn 7th Ave & Broadway	400	United States] [151 W 34th St (btwn 7th Ave & Broadway), New	(raner: dispray, lat: 40.7508565658	40.750857	-73.989066	NaN	10001	NY	4ce4134377ef22 4b869a467b
Caruso's Pizza	Pizza Place	Penn	US	New	United	NaN	551	[Penn Station, New York, NY,	trau2034spray, lat:	40.75042	-73.991417	NaN	NaN	NY	4bb534dbf562ef
&pizza	Pizza Place	Station 15 W 28th	US	York New	States	Broadway	456	United States] [10 W 2011 St (Broadway), New	40.7504201474 ((1au6/.75ispray, 'lat':	40.745205	-73.988231	NaN	10001	NY	3bc8ab2e97 594076b2840fc2
		St		York	States	-		York, NY 10001, [29th Street, New	40.7452045793 7066 [('label': 'display,						35e72564c2 5a32dc066a595
Pizza Market	Pizza Place	NaN 1387	US	York New	States	29th Street	471	York, NY 10001, United States] [1387 Bloadway (37th St), New	Tat: 40.746467, Tng': (Taber: dispray, Tat:	40.746467	-73.990096	NaN	10001	NY	02016afedbb 596e509fda5ed
Frankie Boy's Pizza	Pizza Place	Broadway	US	York	States	37th St	425	York, NY 10018,	40.7520585330 ((rau8∩°8ispray)	40.752059	-73.987595	NaN	10018	NY	e571682a7ae
Gyro II & Spinellli's Pizza	Greek Restaurant	Penn Station	US	New York	United States	NaN	535	New York, NY 10001, United States [401 7th Ave (at	Tat: 40.7505914772 ((rau@C*G)spray,	40.750591	-73.99112	NaN	10001	NY	4b7dc8d0f964a5 2070d42fe3
Little Italy Pizza	Pizza Place	401 7th Ave	US	New York	United States	at W 33rd St	520	W 33rd St), New York, NY 1000	Tat: 40.7502853602 mau37.66spray.	40.750285	-73.991087	NaN	10001	NY	4bdeff34e75c0f4 7f58ac903
Tony's Pizza & Restaurant	Pizza Place	58 W 31st St	US	New York	United States	NaN	45	New York, NY 10001, United	Tat: 40.7484154573	40.748415	-73.985738	NaN	10001	NY	4e4c4433bd413 c4cc6681600
99 Cent Pizza	Pizza Place	NaN	US	New York	United States	NaN	317	[New York, NY 10001, United States]	[('label': 'display, 'lat': 40.747924, 'lng': (rabel: display,	40.747924	-73.988946	NaN	10001	NY	5c28745fa6031c 002c9c3343
Pizza And Deli	Pizza Place	18 E 33rd St	US	New York	United States	5th Avenue	113	(5th Avenue), New York, NY	(raber: display, lat: 40.7477157367	40.747716	-73.984785	NaN	10016	NY	4ee0e96f9a52e 7f5b945d51b
Pizza Pete's	Pizza Place	NaN	US	New York	United States	NaN	148	[New York, NY 10001, United States]	(rau8f:\Vispray, lat: 40.7473168333	40.747317	-73.985385	NaN	10001	NY	4c4c6ad09c8d2 d7f3f3c656c
DJ Pizza	Pizza Place	120 E 34th St	US	New York	United States	Lexington Ave	515	[120 E 34th St (Lexington Ave),	[('label': 'display, 'lat': 40.746377,	40.746377	-73.979977	NaN	10016	NY	5787b226498e4 a619c8b1dfd
99 Cent Famous	Pizza Place	NaN	US	New	United	NaN	474	New York, NY 1 [New York, NY 10016, United	'ing': [('label': 'display, 'lat': 40.744522,	40.744522	-73.98667	NoMad	10016	NY	59f0c2f3a30619 599ab17a77
Pizza pizza bar NYC	American	151 W 34th	US	York	States	7th Ave	446	States] [151 W 3481 St (7th Ave), New	lat: 40.744522, lng': trauer: dispray, lat:	40.751266	-73.989324	NaN	10001	NY	570bdac9498efb
	Restaurant	St 333 5th Ave	US	York New	States	NaN	100	York, NY 10001, [333 bill Ave, New York, NY	40.7512658161 4452 [('label': 'display,	40.747773	-73.985046		10016		0ebb5e011a 4f325a1619836c
Big Georges Pizza	Pizza Place			York	States			10016, United Stotes [New York, NY	'lat': 40.747773, 'lng': [('label': 'display',			NaN		NY	91c7cf474d 5301bcf0498e55
Dollar Pizza	Pizza Place	NaN	US	York	States	NaN	129	10001, United States] [1 E 28th St (5th	"lat": 40.747491, "lng": [('label': 'display,	40.747491	-73.985338	NaN	10001	NY	31e169aae7 5c105a14916bc
Famous Pizza	Pizza Place	1 E 28th St	US	York	States	5th Ave	471	Ave), New York, NY 10016, Un [New York, NY	"lat": 40.744576, "lng": [('label': 'display,	40.744576	-73.9868	NaN	10016	NY	1002cf9976e
New York Style Pizza	None	NaN	US	New York	United States	NaN	148	10016, United States]	Tat: 40.747333, Ting': (raper: dispray,	40.747333	-73.985039	NaN	10016	NY	4c913af451d9b1 f794c37e46
Pizza Shop	Pizza Place	151 W 34th St	US	New York	United States	& Broadway	314	(btwn 7th Ave & Broadway), New [185 West 32nd	Tat: 40.7510949596 max4447spray	40.751095	-73.987178	NaN	10001	NY	4e31ab97483b1 bbfc5b04d38
Little Italy Pizza	Pizza Place	185 West 32nd St	US	New York	United States	7th Ave	498	St (7th Ave), New York, NY 1000	Tat: 40.7495360715 (raudP.18spray,	40.749536	-73.991099	NaN	10001	NY	4fb286b9e4b0a 8c8112a6cae
Pizza Truck	Pizza Place	Broadway & 30th st	US	New York	United States	NaN	370	30th st, New York, NY, United	"lat": 40.7465476026	40.746548	-73.988705	NaN	NaN	NY	4c3c8482933b0f 470a24e421
K Food Pizza	Pizza Place	18 E 33rd St	US	New York	United States	btw Madison & 5th Ave	162	(btw Madison & 5th Ave), New	[('label': 'display, 'lat': 40.747438, 'lng':	40.747438	-73.984235	NaN	10016	NY	4c069b8a8b452 0a1dfa98597
Pizza Mercato	Pizza Place	120 E 34th St	US	New York	United States	at Lexington	503	[120 E 34th St (at Lexington), New York, NY 10	NaN	40.746339	-73.980171	NaN	10016	NY	4a5e8adbf964a 520bebe1fe3
Aroma Pizza	Pizza Place	35 W 36th St	US	New York	United States	Btw 6th and 5th Ave	237	[35 W 36th St (Btw 6th and 5th	[{'label': 'display, 'lat': 40.750783,	40.750783	-73.985548	NaN	10018	NY	4b5c856df964a5 20243429e3
New Balance Pizza Co	Pizza Place	47 E 34th St	US	New York	United States	NaN	277	New York, NY 10016, United	"Ing": [{'label': 'display, 'lat': 40.747642,	40.747642	-73.982298	NaN	10016	NY	5da110df2c1e91 0008c61f82
NB Pizza	Pizza Place	47 East 47th Street	US	New York	United States	NaN	285	[47 East 47th Street, New York,	"Ing": [('label': 'display, 'lat': 40.747378,	40.747378	-73.982372	NaN	10016	NY	5d9e6b959766e b00080ed268
Pizza king	Pizza Place	Avenue of	US	New	United	W 38th	392	NY 10016, Unit [1011 Avenue of the Americas (W	'Ing': ((Taber: display, 'lat':	40.752131	-73.986068	NaN	10018	NY	4fbbc277e4b0ef
Best Ray Pizza	Pizza Place	58 W 31st	US	York	States	Street	288	38th Street), [58 W 31st St, New York, NY	40.7521306651 7244 [('label': 'display, 'lat': 40.747607,	40.747607	-73.988435	NaN	10001	NY	a7dacfaaee 4f3211e619833
6th Avenue Coffee		St 1013 Avenue of		York	States			10001, United Tro 15 Wente or the Americas	'Ing': [{'label': 'display,						175d60d85bf 4b9c1baef964a5
& Pizza Shop	Pizza Place	the Americae	US	York	States	38th Street	390	(38th Street), [12 2 37th St (btwn Madison &	Tat': 40.7521314, Ting' (trauer: dispray, Tat':	40.752131	-73.985928	NaN	10018	NY	20e14a36e3 4db19ab97abaff
Papa John's Pizza	Pizza Place	12 E 37th St Penn	US	York	States	Madison & 5th Ave.	296	5th Ave.), New	40.7498991584 If label': 'display.	40.749899	-73.982199	NaN	10016	NY	58538d458f
Enrico Caruso Pizza	Pizza Place	Station - LIRR	US	New York	United States	7th Ave @ 32nd St	558	LIRR (7th Ave @ 32nd St), New	"lat": 40.750415, "Ing": (raper: display,	40.750415	-73.991502	NaN	10018	NY	4b53397df964a 520fe9227e3
Frank's Pizza	Pizza Place	333 7th Ave	US	New York	United States	29th Street	410	(29th Street), New York, NY 1240'001 Ave.	Tat: 40.7471583280	40.747158	-73.989755	NaN	10001	NY	4cc5e55d3ed51 99c9b6a4b1e
Pn Woodfired Pizza	Pizza Place	246 5th Ave	US	New York	United States	NaN	471	New York, NY 10001, United	[{'label': 'display, 'lat': 40.74488, 'lng':	40.74488	-73.987847	NaN	10001	NY	5cdee4ab04d1a e002cea203a
Spin City Records & Pizza	Pizza Place	460 Park Ave S	US	New York	United States	NaN	436	New York, NY 10016, United	[('label': 'display, 'lat': 40.7450919, 'lng'	40.745092	-73.983129	NaN	10016	NY	5cf7c99e588e36 002c327ae2
Bravo Kosher Pizza	Pizza Place	1367 Broadway	US	New York	United	NaN	388	New York, NY 10018, United	lat: 40.7517332377	40.751733	-73.987482	NaN	10018	NY	545592a2498e5 c511030e53b
Star Gourmet Deli & Pizza	Deli / Bodega	797 Avenue of the	US	New York	United States	W 27th St	466	[797 Avenue of the Americas (W	(raner: *dispray, *Tat: 40.7465745332	40.746575	-73.990105	NaN	10001	NY	52cb01f011d234 eecfed6007
32nd Street Pizza	Pizza Place	Americas 32nd off 7th	US	NaN	United States	NaN	509	27th St), New Y [32nd off 7th, New York,	(rapél*főlspiay, Taf: 40.7496190399	40.749619	-73.991207	NaN	NaN	New York	4e860e67f790d 3f8d90b96cd
Pizza King	Pizza Place	120 E 34th St	US	New York	United States	at Lexington	513	United States] [120 E 34th St (at Lexington Ave.),	(rapel*: 6ispray, lat: 40.7465048393	40.746505	-73.979923	NaN	10016	NY	4f3322fae4b0a6 76eba7b4e6
Zimari Pizza	Pizza Place	113 E 31st	US	New	United	Ave.	492	New York, (Park), New	tt raudi?98ispray, l'at':	40.745059	-73.981892	NaN	10016	NY	4a708910f964a
Original Ray's	Pizza Place	St 341	US	York New	States	39th	562	York, NY 10016, (341 Lekington Ave (39th), New	40.7450585686 ((1au 017.15 ispray, 'lat':	40.749392	-73.978707	NaN	10016	NY	520b8d71fe3 4c5c4659d2532
Pizza Breakfast Lunch		Lexington Ave		York New	States			York, NY 10016 [New York, NY	40.7493915102 [('label': 'display,						0a1dfb5c27a 50004f6ee4b04
Pizza	Pizza Place	NaN	US	York	States	NaN	518	10001, United States] [6Ave, New York,	'lat': 40.74479, 'lng': [{'label': 'display,	40.74479	-73.988743	NaN	10001	NY	dd3f9d1ab32 4db853e843a1a
In-N-Out Pizza	Pizza Place	6Ave	US	York	States	NaN 6th avenue	471	NY 10018, United States] [6th avenue and	"lat": 40.752869, "lng": [('label': 'display,	40.752869	-73.985897	NaN	10018	NY	75c1f70b89d
\$1.00 In- N- Out Pizza	Pizza Place	NaN	US	New York	United States	and 39th street	473	39th street, New York, NY 1001	lat: 40.752901, lng':	40.752901	-73.98511	NaN	10018	NY	4e0cd1a3483b3 608f10c6333

Four Seasons Hotel New York is a luxury hotel in New York that opened in 1993. At 682 feet (208 m) tall and 52 stories, it is the second tallest hotel in New York City, the fourth tallest hotel in the U.S.[5], and the 78th tallest building in New York. The hotel is noted for its luxurious interiors which have an art modern quality.

Explored some interesting destination around Four Season Hotel New York. Below are the venues

		ı	1				
name	categories	address	сс	city	country	crossStreet	distance
Four Seasons Hotel	Hotel	57 E 57th St	US	New York	United States	btwn Madison & Park	85
Saint Laurent	Boutique	3 W 57th St	US	New York	United States	btwn 5th Ave and 6th	207
Phillips	Art Gallery	450 Park Ave	US	New York	United States	at E 57th St	118
Jim's Shoe Repair	Shoe Store	50 E 59th St	US	New York	United States	Madison/Park	90
Apple Fifth Avenue	Electronics Store	767 5th Ave	US	New York	United States	btwn E 58th & E 59th S	164
Mizu Salon	Spa	505 Park Avenue	US	New York	United States	at 59th St	135
Tiffany & Co.	Jewelry Store	727 5th Ave	US	New York	United States	at E 57th St	212
Pierre Michel Salon	Salon / Barbershop	135 E 57th St	US	New York	United States	Lexington Avenue	194
Mark Garrison Salon	Salon / Barbersho	108 E 60th St	US	New York	United States	Between Lexinton and	202
BLT Steak	Steakhouse	106 E 57th St	US	New York	United States	at Park Ave	149



The Four-Season New York is located on bustling East 57th Street, one of Manhattan's major east/west thoroughfares, between Park and Madison avenues. The area offers most of luxuries in terms of fashion and retails stores.

Another important point noted during the study is trending venue in this area which is Gardenia Terrace. Blow is the details and map for the same.



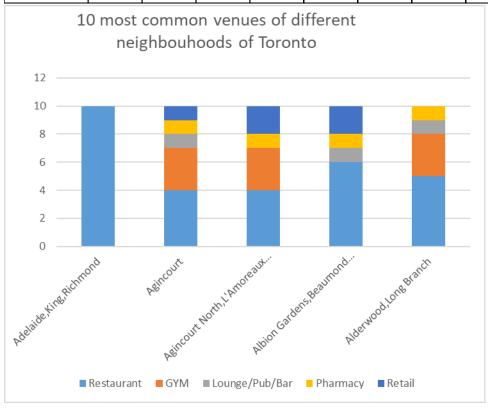
Comparison of neighborhoods of New York and Toronto.

Using Foursquare API found the Top 10 most common venues near Manhattan neighborhood.

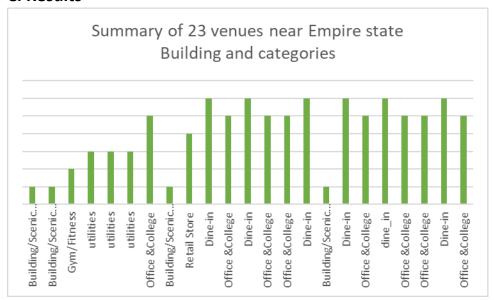
Neighborhood	1st Most	2nd Most	3rd Most	4th Most	5th Most	6th Most	7th Most	8th Most	9th Most	10th Most
Neighborhood	Common									
	Park	Coffee	Hotel	Memorial	Gym	Boat or	Wine	Grocery	Food	Shopping
Battery Park City	Faik	Shop	Hotel	Site	Gyili	Ferry	Shop	Store	Court	Mall
	Coffee	Pizza	Café	Yoga	Japanese	Cosmetics	Bar	Bakerv	Spa	French
Carnegie Hill	Shop	Place	Care	Studio	Restauran	Shop	Dai	Dakery	Зра	Restauran
	Cosmetics	Seafood	African	American	Bar	Chinese	French	Cafeteria	Bookstore	Boutique
Central Harlem	Shop	Restauran	Restauran	Restauran		Restauran	Restauran	Careteria	BOOKSTOLE	Boutique
	Coffee	Italian	Bakery	Ice Cream	Theater	American	Seafood	Nightclub	Hotel	Health &
Chelsea	Shop	Restauran	Бакету	Shop	meater	Restauran	Restauran	Mignicius	посет	Beauty
	Chinese	Cocktail	American	Salon /	Spa	Vietname	Bubble	Bakery	Asian	Mexican
Chinatown	Restauran	Bar	Restauran	Barbersho	Sha	se	Tea Shop	bakery	Restauran	Restauran

The same has done for city Toronto, Canada and below are the results:

Neighbourhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	7th Most Common Venue	8th Most Common Venue	9th Most Common Venue	10th Most Common Venue
Adelaide,King,Ric hmond	Coffee Shop	Café	Thai Restauran t	Bar	American Restauran t	Hotel	Restauran t	Burger Joint	Steakhou se	Sushi Restauran t
Agincourt	Lounge	Breakfast Spot	Skating Rink	Clothing Store	Yoga Studio	Eastern European Restauran t	Dog Run	Doner Restauran t	Donut Shop	Drugstore
Agincourt North,L'Amoreaux East,Milliken,Steel 	Park	Playgroun d	Eastern European Restauran t	Discount Store	Dog Run	Doner Restauran t	Donut Shop	Drugstore	Dumpling Restauran t	Electronic s Store
Albion Gardens,Beaumo nd Heights,Humberg ate,Jam	Grocery Store	Pizza Place	Fast Food Restauran t	Pharmacy	Fried Chicken Joint	Video Store	Beer Store	Sandwich Place	Doner Restauran t	Diner
Alderwood,Long Branch	Pizza Place	Pharmacy	Gym	Sandwich Place	Coffee Shop	Skating Rink	Athletics & Sports	Pub	Doner Restauran t	Dim Sum Restauran

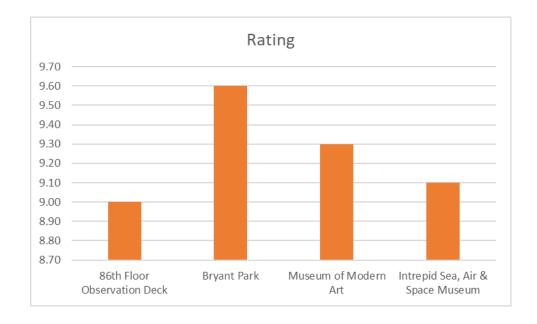


C. Results



Out of these different categories turned out conducted a study on the ratings of each venues, that's most attracted by visiters/a must visit place in this area.

Venue	Rating
86th Floor Observation Deck	9.00
Bryant Park	9.6
Museum of Modern Art	9.3
Intrepid Sea, Air & Space Mu	9.1

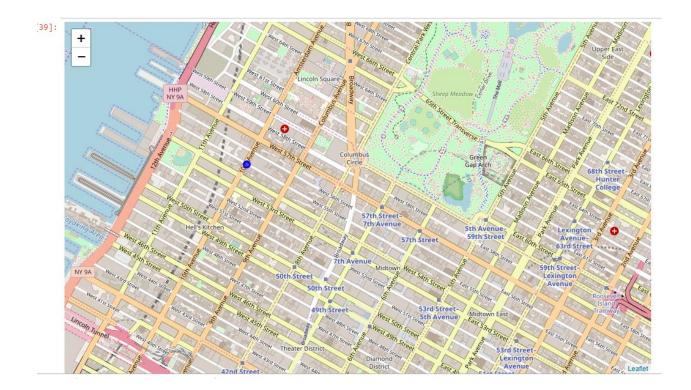


Out of the 50 pizza destinations turned out by Foursquare API found the ratings for some selected destinations. Here it is the chart:



Trending venue near Four Season, NY.

name	categorie s	location. distance	location.	location. postalCo de	location. state	location.	location.l at	location.l ng
Gardenia						United		
Terrace	Lounge	1641	New York	10019	NY	States	40.76776	-73.9894



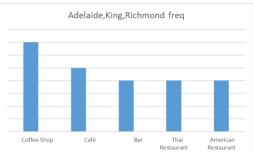
Within this two neighborhoods *Adelaide, King, Richmon* and *Agincourt* dragged attention because of its dissimilarity.

Agincourt		
venue	freq	
Skating Rink	0.25	
Clothing Store	0.25	
Breakfast Spot	0.25	
Lounge	0.25	
Museum	0	

Adelaide,King,Richmond						
venue	freq					
Coffee Shop	0.07					
Café	0.05					
Bar	0.04					
Thai Restaurant	0.04					
American Restaurant	0.04					

Two interesting neighborhoods of city of Toronto.





D. Discussion

As it is mentioned in the beginning of this study, New York it's not only a most populous city but it is an important place for diplomatic interest also. And people from different walk of life visit the place. So, it pulled the attention of study to cover the areas that a resident and visitor of the city would like to know. Using the analytical and classification techniques found the interesting areas and their ratings. Also given visual representation through maps.

Another important point noted during study is about two particular neighborhoods of city of Toronto, namely: Adelaide, King, Richmond & Agincourt. Agincourt has one of the largest Asian communities in Toronto and as it indicated in the table given in the result section of this document that there are chances for Asian restaurants in that neighborhood. Richmond is home to the city's industrial and business region housing most of the city's hotels. When we analyzed the top10 venues in this neighborhood, it's all about restaurants and food. It means business related to this industry have great scope.

F. Conclusion

As we see the outcomes of this study, it's very clear that people who turn out to explore a new destination, these kind of analysis techniques which we achieved through the advancement of technology is of grate help.