

BATTLE OF NEIGHBORHOODS WEEK 2

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Introduction



THE CITY OF NEW YORK IS THE FINANCIAL AND INDUSTRIAL HUB OF UNITED STATES.



IT PROVIDES LOT OF BUSINESS
OPPORTUNITIES AND BUSINESS
FRIENDLY ENVIRONMENT. IT IS THE
CENTER OF FASHION, AND OFFERS
WORLD-CLASS CREATIVE TALENT,
RETAIL SPACE IN HIGHLY
POPULATED LOCATIONS, BEST-INCLASS PRODUCTION COMPANIES
AND FASHION AND DESIGN
SCHOOLS.



TO START A NEW CLOTHING AND ACCESSORIES OUTLET WHERE PEOPLE ALREADY HAVE MULTIPLE OPTIONS ,THE DECISION NEEDS TO BE TAKEN BASED ON REALISTIC LOGICS .



THUS, ANY NEW BUSINESS
VENTURE OR EXPANSION NEEDS TO
BE ANALYZED CAREFULLY. THE
INSIGHTS DERIVED FROM ANALYSIS
WILL GIVE GOOD UNDERSTANDING
OF THE BUSINESS ENVIRONMENT
WHICH HELP IN STRATEGICALLY
TARGETING THE MARKET. THIS
WILL HELP IN REDUCTION OF RISK.
AND THE RETURN ON INVESTMENT
WILL BE REASONABLE.

Problem Description

- A dress boutique is a business which designs and sells dresses according to the fashion trends for customers in return for money, either paid through credit /debit, cash on delivery ,cash payment after purchasing any item.
- The City of New York is famous for its excellent fashion shows, fashion brands and street fashion. Its
 fashion culture includes an array of ethnic, western and modern designs, here are the fashion
 categories of brands designing items from high class to the budget friendly categories operating in in
 NYC.
- To start a new clothing business it needs analytics based on facts and figures to survive this venture. If this becomes successful, then I can replicate the same in other locations. First move is very important, thereby choice of location is very important.



- In order to segment and explore 5 boroughs and 306 neighborhoods

 Link to the dataset: https://geo.nyu.edu/catalog/nyu 2451 34572
- Fabric wholesale markets in NYC segmented into neighborhoods, we will cluster the data of each neighborhood and analyze the dataset using yelp API

Link

:https://www.yelp.com/search?find_desc=Wholesale+Fabric&find_loc=New+York% 2C+NY

□ Data of fashion/clothing stores opened between year 2015-2019 in New York city, we will segment the data in boroughs and analyze the frequency of brands in neighborhoods

Link: https://nycfuture.org/pdf/CUF StateoftheChains 2019 7.pdf

☐ To analyze the demographics of NYC we will scrap data from the links below

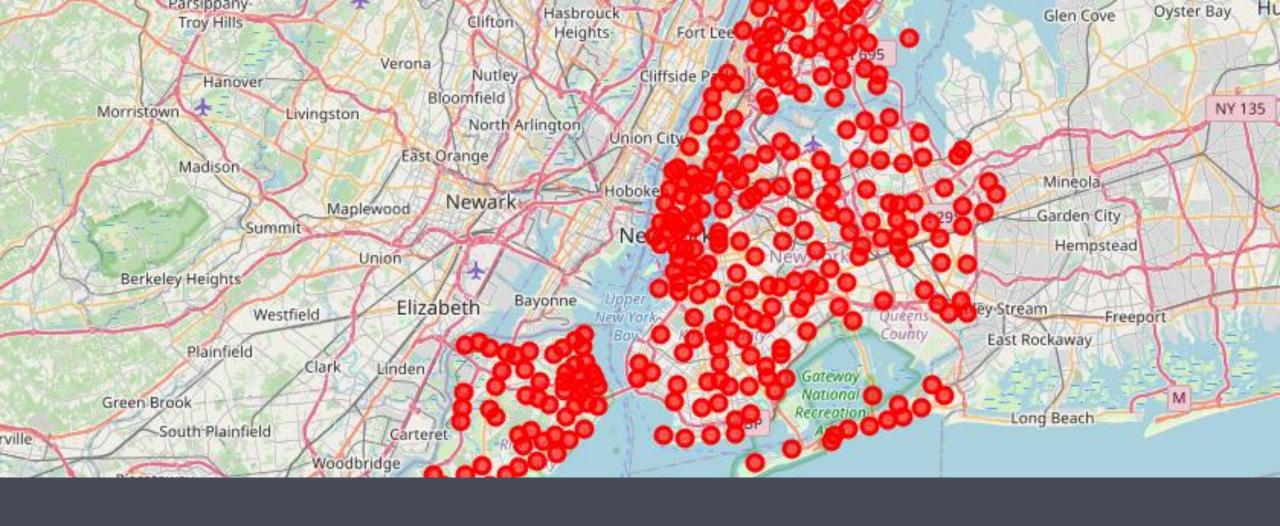
Link: https://en.wikipedia.org/wiki/New York City

Link: https://en.wikipedia.org/wiki/Portal:New York City

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

Analyzing Boroughs of NYC

JSON file is scraped and dataset of NYC is created



Analyzing NYC dataset

Used Foursquare API to plot the map of neighborhoods of NYC

Population & Racial Composition Dataset of NYC

<pre>population_data = population_data.fillna('') population_data</pre>							^[92]: *		Racialcomposition	2010	1990	1970	1940				
	Borough	County	Estimate_2017	GrossDomesticProduct\n	square_miles	square_km	persons_sq_mi squarekm	n persons/sq.mi	persons/km2\n		0	None	None	None	None	None	
0	The Bronx	Bronx	1,418,207	42.695\n	30,100	42.10	109.04				1	White	44.0%	52.3%	76.6%	93.6%	
1	Brooklyn	Kings	2,559,903	91.559\n	35,800	70.82	183.42				,	Non-Hispanic	33.3%	43.2%	62.9%	92.0%	
2	Manhattan	New York	1,628,706	600.244\n	368,500	22,83	59.13				-	Non-mapanic	33,370	751270	021370	321070	
3	Queens	Queens	2,253,858	93.310\n	41,400	108.53	281.09				3	Black or African American	25.5%	28.7%	21.1%	6.1%	
4	Staten Island	Richmond	476,143	14,514\n	30,500	58.37	151.18				4	Hispanic or Latino (of any race)	28.6%	24.4%	16.2%	1.6%	
5		City of New York	8,336,817	101,000	842.343	302,64	783.83				5	Asian	12.7%	7.0%	1,2%	_	
6		State of New York	19,453,561	89,000	1,731.910	47,214	122,284				,	Asian	1217/0	71070	11270	_	
7		Sources:[14] and see individual borough articles								[93]:	df	f.to_csv('nyc-demographics.csv',index=False)					



No of clothing-stores opened in NYC from 2015-2019

```
print("Number of clothning-stores opened in Brookly from year 15-19 ", df['Brooklyn'].sum())
print("Number of clothning-stores opened in Bronx from year 15-19 ", df['Bronx'].sum())
print("Number of clothning-stores opened in Queens from year 15-19 ", df['Queens'].sum())
print("Number of clothning-stores opened in Manhattan from year 15-19 ", df['Manhattan'].sum())
print("Number of clothning-stores opened in Staten Island from year 15-19", df['Staten Island'].sum())
Number of clothning-stores opened in Brookly from year 15-19 1698.0
```

Number of clothning-stores opened in Brookly from year 15-19 1698.0

Number of clothning-stores opened in Bronx from year 15-19 984.0

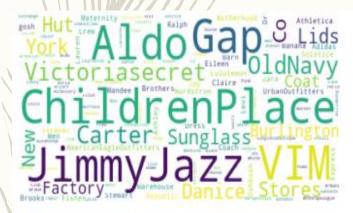
Number of clothning-stores opened in Queens from year 15-19 1752.0

Number of clothning-stores opened in Manhattan from year 15-19 2883.0

Number of clothning-stores opened in Staten Island from year 15-19 454.0

Most Preferred Clothing Brands in NYC

Top 8 clothing brands of NYC



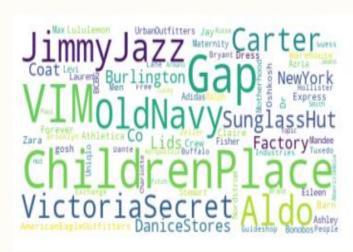
<Figure size 7200x7200 with 0 Axes>

Top 5 clothing brands of Manhattan



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Top 5 clothing brands of Brooklyn



Top 5 clothing brands of Bronx

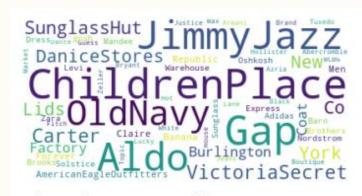


<Figure size 2160x3240 with 0 Axes>

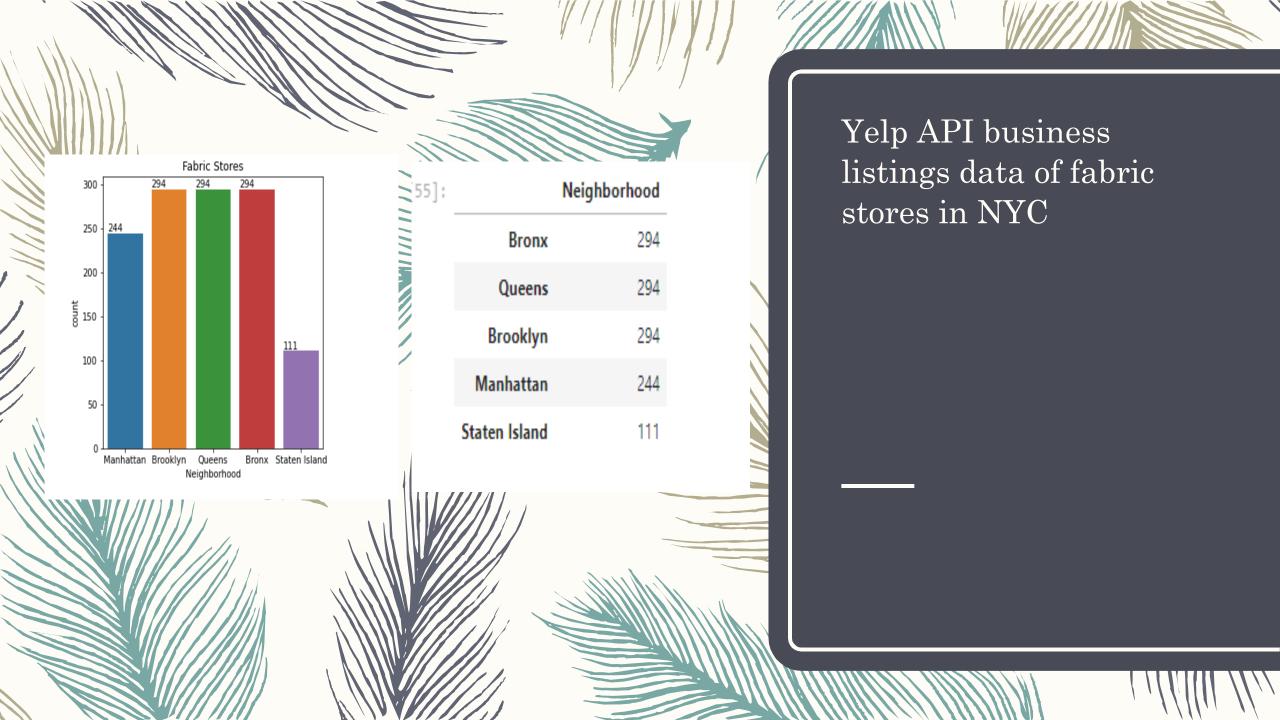
Top 5 clothing brands of Queens



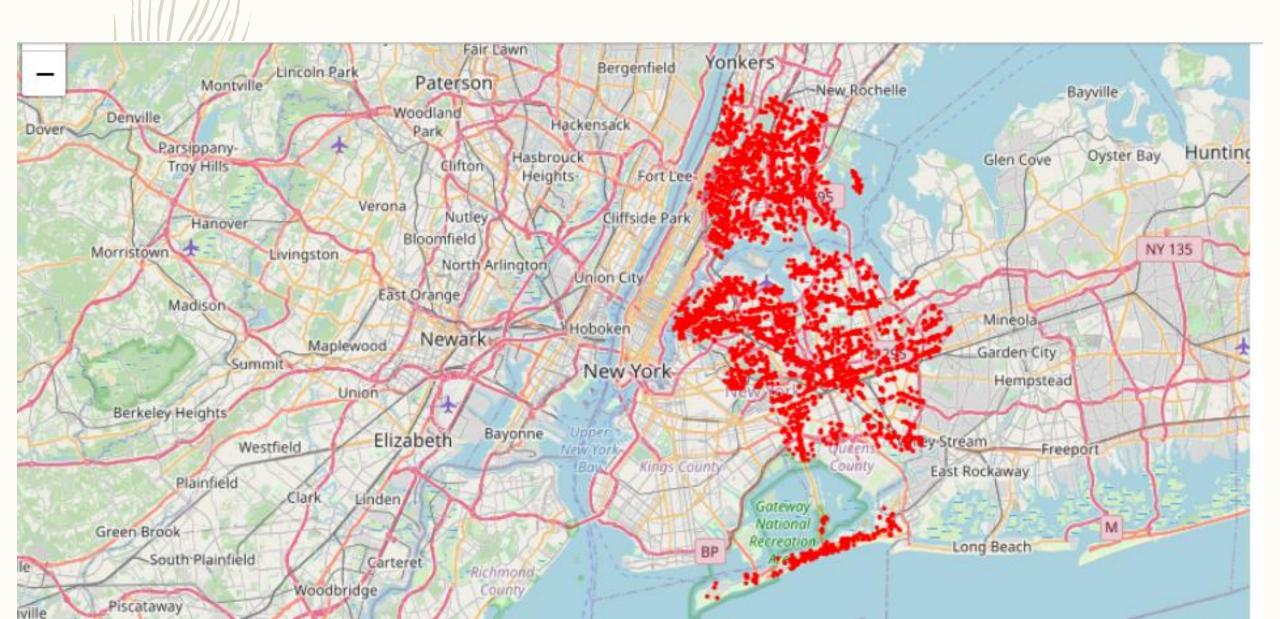
Top 5 clothing brands of Staten Island

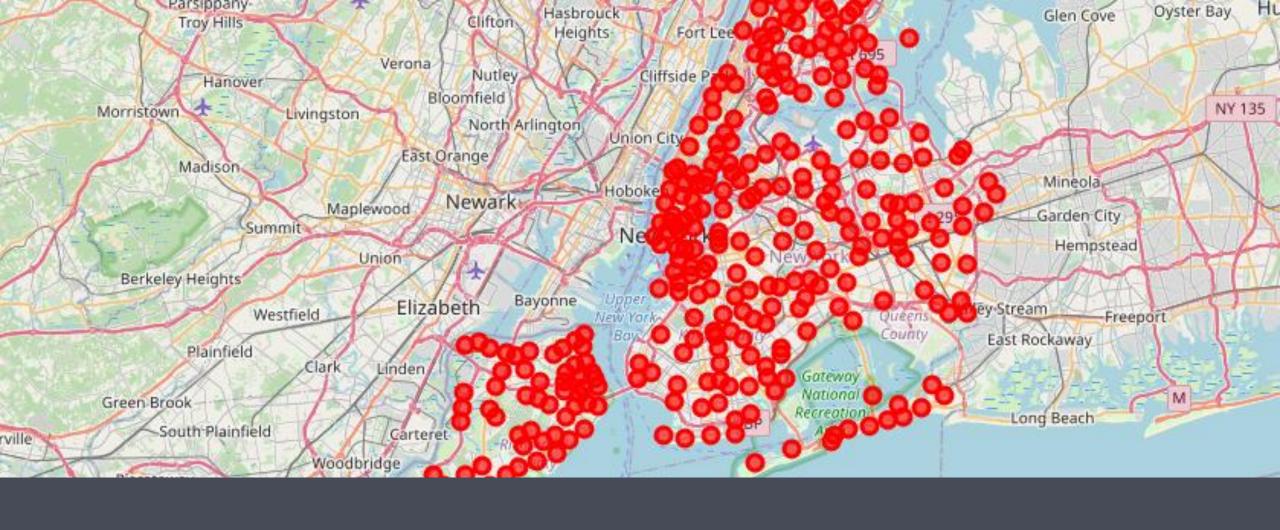


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Venue Cluster of Queens & Bronx





Venue Cluster of Queens & Bronx

Used Foursquare API to plot



Conclusion:

- To open a clothing business market trends needs to be considered that what kind of product I am going to sell. After understanding of market trends and frequency of opened outlets in NYC one has to offer something like top 8 brands of NYC as a competitor, but this might require a lot of investment and capital.
- After analyzing the population Bronx, Brooklyn and Manhattan are top 3 populous boroughs which means that higher population higher consumer demand, to target a lot of customers this can be one option to consider about starting business in these neighborhoods.
- The number of top 3 outlets opened in NYC in last five years are higher in Manhattan and Queens which means there is already a lot of competition to start a new clothing line.
- Along with clothing lines if wholesale fabric is considered as a competitor then Bronx,
 Brooklyn and Bronx has higher number of stores.
- Based on all factors above we can consider the cluster 0 of untapped markets with less competitors and same practice can be performed rigorously for other boroughs too.
- In the end to start a new business with less capital and less competitors Staten Island is the good option to experiment as it has lowest number of both wholesale fabric and clothing line stores.