# Captone project

February 11, 2021

#### 0.1 Introduction: Business Problem

In this project we will use data science tools to identify which borough in New York City has the most unique places to visit.

#### 0.2 Target audience

people looking to explore unique places to visit New York City

### 0.3 Background of the problem

people looking to explore unique places in New York City usually dont know which borough in New York City to visit that the most unique places in New York City

# 0.4 Data to be used for project

foursquare location data (Borough, Borough Latitude, Borough Longitude, Venue, Venue Latitude, Venue Longitude, Venue Category)

#### 0.5 Libraries used for project

requests(library to handle requests),pandas(library for data analsysis),numpy(library to handle data in a vectorized manner),random(library for random number generation),Nominatim(module to convert an address into latitude and longitude values),Image&HTML(libraries for displaying images),json\_normalize(tranforming json file into a pandas dataframe library),folium(plotting library)

```
[2]: import requests # library to handle requests
import pandas as pd # library for data analsysis
import numpy as np # library to handle data in a vectorized manner
import random # library for random number generation

!pip install geopy
from geopy.geocoders import Nominatim # module to convert an address into
□ □ latitude and longitude values

# libraries for displaying images
from IPython.display import Image
from IPython.core.display import HTML
```

```
# tranforming json file into a pandas dataframe library
from pandas.io.json import json_normalize
! pip install folium==0.5.0
import folium # plotting library
print('Folium installed')
print('Libraries imported.')
Collecting geopy
  Downloading https://files.pythonhosted.org/packages/0c/67/915668d0e286ca
a21a1da82a85ffe3d20528ec7212777b43ccd027d94023/geopy-2.1.0-py3-none-any.whl
(112kB)
                       | 112kB 11.2MB/s eta 0:00:01
Collecting geographiclib<2,>=1.49 (from geopy)
  Downloading https://files.pythonhosted.org/packages/8b/62/26ec95a98ba642991631
99e95ad1b0e34ad3f4e176e221c40245f211e425/geographiclib-1.50-py3-none-any.whl
Installing collected packages: geographiclib, geopy
Successfully installed geographiclib-1.50 geopy-2.1.0
Requirement already satisfied: folium==0.5.0 in
/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (0.5.0)
Requirement already satisfied: requests in
/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from
folium==0.5.0) (2.25.0)
Requirement already satisfied: six in
/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from
folium==0.5.0) (1.15.0)
Requirement already satisfied: branca in
/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from
folium==0.5.0) (0.4.1)
Requirement already satisfied: jinja2 in
/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from
folium==0.5.0) (2.11.2)
Requirement already satisfied: chardet<4,>=3.0.2 in
/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from
requests->folium==0.5.0) (3.0.4)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in
/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from
requests->folium==0.5.0) (1.25.11)
Requirement already satisfied: certifi>=2017.4.17 in
/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from
requests->folium==0.5.0) (2020.12.5)
Requirement already satisfied: idna<3,>=2.5 in
/home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from
requests->folium==0.5.0) (2.10)
```

```
Requirement already satisfied: MarkupSafe>=0.23 in /home/jupyterlab/conda/envs/python/lib/python3.6/site-packages (from jinja2->folium==0.5.0) (1.1.1) Folium installed Libraries imported.
```

```
[3]: CLIENT_ID = 'DCLOPKPZWJHKZECDVMN21AVYC5T04XZJORSEF0Q05JGGYWVM'
    CLIENT_SECRET = 'WCLFWV2JQYTSQZLN2FJDJ5PC2PCSPVGPFV4AGSBIY1MFLV0Q'
    ACCESS_TOKEN = 'BQ02F0JZR1UZBLRQH2NTOCYN5DDK1FWRL5GKLH3QDQHYB255'
    VERSION = '20180604'
    radius = 5000
    LIMIT = 100
    print('Your credentails:')
    print('CLIENT_ID: ' + CLIENT_ID)
    print('CLIENT_SECRET:' + CLIENT_SECRET)
```

Your credentails:

CLIENT\_ID: DCLOPKPZWJHKZECDVMN21AVYC5T04XZJORSEF0Q05JGGYWVM CLIENT\_SECRET:WCLFWV2JQYTSQZLN2FJDJ5PC2PCSPVGPFV4AGSBIY1MFLV0Q

# 0.6 Created a dataframe containing name and location of all the boroughs of New York

```
[4]: Borough Latitude Longitude
0 Bronx 40.8466508 -73.8785937
1 Brooklyn 40.6501038 -73.9495823
2 Manhattan 40.7896239 -73.9598939
3 Queens 40.7498243 -73.7976337
4 Staten Island 40.5834557 -74.1496048
```

# [5]: df.dtypes

[5]: Borough object
Latitude object
Longitude object

```
dtype: object
[6]: df["Latitude"] = pd.to_numeric(df["Latitude"], downcast="float")
     df["Longitude"] = pd.to_numeric(df["Longitude"], downcast="float")
     df.dtypes
[6]: Borough
                   object
    Latitude
                  float32
                  float32
    Longitude
     dtype: object
[7]: latitude = 40.8466508
     longitude = -73.8785937
     map_borough = folium.Map(location=[latitude, longitude], zoom_start=12)
     for borough, lat, lng in zip(df['Borough'], df['Latitude'], df['Longitude']):
         label = '{}'.format(borough)
         label = folium.Popup(label, parse_html=True)
         folium.CircleMarker(
             [lat, lng],
             radius=6,
             popup=label,
             color='blue',
             fill=True,
             fill_color='blue',
             fill opacity=1,
             parse_html=False).add_to(map_borough)
     map_borough
[7]: <folium.folium.Map at 0x7fd5efd9af98>
[]:
[8]: def getNearbyVenues(names, latitudes, longitudes):
         venues_list=[]
         for name, lat, lng in zip(names, latitudes, longitudes):
             print(name)
             url = 'https://api.foursquare.com/v2/venues/explore?
      →&client_id={}&client_secret={}&v={}&ll={},{}&radius={}&limit={}'.format(
                 CLIENT_ID,
                 CLIENT_SECRET,
                 VERSION,
                 lat,
```

lng,

```
radius,
                 LIMIT)
             results= requests.get(url).json()["response"]['groups'][0]['items']
             #returning only relevant information for each nearby venue and appendu
      \hookrightarrow to the list
             venues_list.append([(
                 name,
                 lat,
                 lng,
                 ven['venue']['name'],
                 ven['venue']['location']['lat'],
                ven['venue']['location']['lng'],
                ven['venue']['categories'][0]['name']) for ven in results])
         return (venues_list)
     borough_venues = getNearbyVenues(names = df['Borough'],
                                    latitudes = df['Latitude'],
                                  longitudes = df['Longitude'])
     borough venues
    Bronx
    Brooklyn
    Manhattan
     Queens
    Staten Island
[8]: [[('Bronx',
        40.846649169921875,
        -73.87859344482422,
        'Congo Gorilla Forest',
        40.8477740931664,
        -73.88160435479497,
        'Zoo'),
       ('Bronx',
        40.846649169921875,
        -73.87859344482422,
        'JungleWorld',
        40.84522652894162,
        -73.8771813890588,
        'Zoo'),
       ('Bronx',
        40.846649169921875,
        -73.87859344482422,
        'African Lions',
        40.847058199546495,
```

```
-73.8780235243182,
 'Zoo Exhibit'),
('Bronx',
40.846649169921875,
-73.87859344482422,
'Grizzly Corner',
40.849022925582624,
-73.87773901220096,
 'Zoo Exhibit'),
('Bronx',
40.846649169921875.
-73.87859344482422,
'Bronx Zoo',
40.85310654542512,
-73.87809446211139,
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('Bronx',
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-73.87859344482422,
'Tiger Mountain',
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 'Zoo Exhibit'),
('Bronx',
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-73.87859344482422.
'Sea Lion Pool',
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 'Zoo'),
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 'Artuso Pastry Shop',
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 'Bakery'),
('Bronx',
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-73.87859344482422,
 'Bug Carousel',
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-73.87965877841036,
 'Theme Park'),
('Bronx',
40.846649169921875,
-73.87859344482422,
```

```
'Joes Italian Deli',
40.85439129501429,
-73.8853668865723,
'Deli / Bodega'),
('Bronx',
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-73.87859344482422,
"Antonio's Trattoria",
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'Casa Della Mozzarella',
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'Deli / Bodega'),
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"Tino's Delicatessen",
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-73.88716612015719,
'Italian Restaurant'),
('Bronx',
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'Arthur Avenue Retail Market',
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-73.88817917236352,
'Market'),
('Bronx',
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-73.87859344482422,
"Mike's Deli",
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-73.8881359312148,
'Deli / Bodega'),
('Bronx',
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'River Park',
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'Park'),
('Bronx',
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'Calabria Pork Store',
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-73.88877606219484,
'Italian Restaurant'),
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'Zero Otto Nove',
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'Pizza Place'),
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'World of Birds',
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-73.87541770935059,
'Zoo'),
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'Giraffe House',
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-73.88012720803052.
'Zoo Exhibit'),
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'Madonia Bakery',
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'Bakery'),
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'Morris Park Pizza',
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'Pizza Place'),
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-73.87859344482422,
'Madagascar',
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-73.8792807069616,
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'Zoo'),
('Bronx',
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'Teitel Brothers Imported Italian Specialty Products',
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-73.88822018662913,
'Food & Drink Shop'),
('Bronx',
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-73.87859344482422,
"Borgatti's Ravioli & Egg Noodles",
40.855014997992136,
-73.88652145739076,
'Food & Drink Shop'),
('Bronx',
40.846649169921875,
-73.87859344482422,
'Full Moon Pizzeria',
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-73.88755698445503,
'Pizza Place'),
('Bronx',
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"Cosenza's Fish Market",
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-73.88833461814113,
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('Bronx',
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-73.87859344482422,
'TCK Martial Arts Academy',
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'Martial Arts School'),
('Bronx',
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-73.87859344482422,
'The Bronx Beer Hall',
40.854197571164775,
-73.88823312783984,
'Bar'),
('Bronx',
40.846649169921875,
-73.87859344482422,
'DeLillo Pastry Shop',
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40.85536383666541,
-73.88719756785711,
'Dessert Shop'),
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'F & J Pine Tavern',
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-73.86224195555774,
'Italian Restaurant'),
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"Conti's Pastry Shoppe",
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'Coffee Shop'),
('Bronx',
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'The New York Botanical Garden',
40.86262485277416,
-73.87724161148071,
'Botanical Garden'),
('Bronx',
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"John & Joe's Pizzeria",
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'Pizza Place'),
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'Pugsley Pizza',
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'Pizza Place'),
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'Starbucks',
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'Coffee Shop'),
('Bronx',
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'Egidio Pastry Shop',
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-73.88697184841936,
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"Mario's Restaurant & Catering",
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'Italian Restaurant'),
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'Peggy Rockefeller Rose Garden',
40.85924439449233,
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'Garden'),
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'Enid A. Haupt Conservatory',
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-73.88215394104962,
'Botanical Garden'),
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'Yankee Pizza',
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'Native Plant Garden at NYBG',
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'Garden'),
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-73.87859344482422,
'Shop in the Garden',
40.86261164742681,
-73.88011616962366,
'Gift Shop'),
```

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('Bronx',
40.846649169921875,
-73.87859344482422,
'The New York Botanical Gardens - The Rock Garden',
40.86445859331298,
-73.88245582580566,
'Beer Garden'),
('Bronx',
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-73.87859344482422,
'Morrone Pastry Shop & Cafe',
40.854635750374605,
-73.88840016473603,
'Dessert Shop'),
('Bronx',
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-73.87859344482422,
'La Masa',
40.84803914725375,
-73.85618214016417,
'Arepa Restaurant'),
('Bronx',
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'NYBG Holiday Train Show',
40.864099621223744,
-73.88204993511216,
'Exhibit'),
('Bronx',
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'Taqueria Tlaxcali',
40.83609833012624,
-73.85494781241097,
'Mexican Restaurant'),
('Bronx',
40.846649169921875,
-73.87859344482422,
'Primavera Pizzeria & Restaurant',
40.84576058179042,
-73.86384770279791,
'Pizza Place'),
('Bronx',
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"Dominick's Restaurant",
40.85421506482662,
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-73.88876521498301,
'Italian Restaurant'),
('Bronx',
40.846649169921875,
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'South of France',
40.831707,
-73.866171999999999,
'Bar'),
('Bronx',
40.846649169921875.
-73.87859344482422,
"Ann Clair's Salumeria",
40.85004616007053,
-73.8517963510315,
'Deli / Bodega'),
('Bronx',
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"Enzo's",
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'Italian Restaurant'),
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"Calandra's Cheese",
40.85375691342471,
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'Cheese Shop'),
('Bronx',
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'Peach Wave',
40.85605141607515,
-73.85570606675319,
'Frozen Yogurt Shop'),
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-73.87859344482422,
"John's Diner",
40.83171346070793,
-73.86689659776195,
'American Restaurant'),
('Bronx',
40.846649169921875,
-73.87859344482422,
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'Edgar Allan Poe Cottage',
40.8655727065113,
-73.89442067838259,
'History Museum'),
('Bronx',
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"Captain's Pizza",
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'Pizza Place'),
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'Thain Family Forest',
40.86452,
-73.875725,
'Garden'),
('Bronx',
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-73.87859344482422,
'Primavera Cafe',
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'Café'),
('Bronx',
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'Bronx Park Greenway/NYC Cycling Bike Path/Trail @ Allerton Ave',
40.86632173117118,
-73.87073275952865,
'Trail'),
('Bronx',
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"Emilio's Pizza",
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'Pizza Place'),
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"Dunkin'",
40.82896687500622,
-73.8758161013277,
'Donut Shop'),
('Bronx',
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40.846649169921875,
-73.87859344482422,
'Mosholu Gate',
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'Garden'),
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"Everett Children's Adventure Gardens",
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'Garden'),
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'7-Eleven',
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'Convenience Store'),
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'Family Garden - NYBG',
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'Garden'),
('Bronx',
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'Brisas Del Caribe Restaurant',
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'Latin American Restaurant'),
('Bronx',
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-73.87859344482422,
'Fresh Frutii',
40.861625,
-73.89894699999999,
'Juice Bar'),
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'White Castle',
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```
'Fast Food Restaurant'),
('Bronx',
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'Bronx Park',
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 'Park'),
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 'White Castle',
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 'Sal & Doms Bakery',
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-73.85523627405723,
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-73.87859344482422,
 'Residence Inn by Marriott New York The Bronx at Metro Center Atrium',
40.8500382,
-73.8425736,
 'Hotel'),
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-73.87859344482422,
 'Estrellita Poblana IV',
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-73.84404435344297,
 'Mexican Restaurant'),
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'Juices for Life',
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 'Juice Bar'),
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-73.87859344482422,
 'La Estrellita Poblana',
```

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40.86707718195586,
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'Mexican Restaurant'),
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-73.85362862246855,
'Sushi Restaurant'),
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'Gym'),
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'LA Fitness',
40.55986667454659,
-74.16727596254569,
'Gym'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'SEPHORA',
40.582072,
-74.166079,
```

```
'Cosmetics Shop'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'Costco',
40.572691331466544,
-74.16882092754945,
'Warehouse Store'),
('Staten Island',
40.58345413208008,
-74.14960479736328.
"Ralph's Famous Italian Ices",
40.573672676194874,
-74.10696098032903,
'Dessert Shop'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
"Dunkin'",
40.58788893623654,
-74.16532883678798,
'Donut Shop'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
"Alfonso's Pastry Shoppe",
40.61282236650595,
-74.12729849865407,
'Dessert Shop'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
"Ralph's Ices",
40.5598048917645,
-74.16927327526194,
'Ice Cream Shop'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'HomeGoods',
40.57466125488281,
-74.16770935058594,
'Department Store'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'Belfiore Meats & Catering',
```

```
40.610116118071986,
-74.14652307388414,
'Italian Restaurant'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'A & C Superette',
40.60508717320879,
-74.12100822308966,
'Deli / Bodega'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'Taste Of India II',
40.57212651619049,
-74.11267401240129,
'Indian Restaurant'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'AMC Dine-In Staten Island 11',
40.580981214299264,
-74.16721136454804,
'Movie Theater'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'The Cake Chef',
40.612884753962106,
-74.1308372542201,
'Bakery'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
"Max's Es-Ca",
40.591488320573276,
-74.10108934861441,
'Italian Restaurant'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'HomeGoods',
40.565139,
-74.11303,
'Furniture / Home Store'),
('Staten Island',
40.58345413208008,
```

```
-74.14960479736328,
'Plaza Bagels & Deli',
40.57338689472842,
-74.11768802680378,
'Bagel Shop'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'La Strada',
40.573742673776685,
-74.11562734222126,
'Italian Restaurant'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
"Macy's",
40.58353954977406,
-74.16528239016243,
'Department Store'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'Something Sweet',
40.57164273221767,
-74.11210681709342,
'Dessert Shop'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'Indoor Extreme Sports',
40.603198,
-74.190694,
'Recreation Center'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
"Goodfella's Pizza & Restaurant",
40.61311430853664,
-74.12399889601244,
'Pizza Place'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'Sanma Japanese Restaurant',
40.61180973836901,
-74.15874947034513,
'Sushi Restaurant'),
```

```
('Staten Island',
40.58345413208008,
-74.14960479736328,
"Canlon's",
40.56521399082132,
-74.12679355909032,
'Restaurant'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'La Fontana Restaurant',
40.56829270499753,
-74.12639466248552,
'Italian Restaurant'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'Precious Island Tea Shop',
40.570726136335146,
-74.11021898799076,
'Dim Sum Restaurant'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
"Bagel N' Buns",
40.610419286899,
-74.1463047184718,
'Bagel Shop'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'Wine So Fine and Liquors',
40.55963134765625,
-74.16848754882812,
'Wine Shop'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'Island Cafe',
40.61313392426478,
-74.13058966398239,
'Diner'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'Nakata',
40.587172659946596,
```

```
-74.10379592747928,
'Japanese Restaurant'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'Freshkills Park',
40.57883097400664,
-74.1878171503988,
'Park'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'Walgreens',
40.5598153,
-74.1664865,
'Pharmacy'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'Empire East',
40.611896,
-74.157533,
'Chinese Restaurant'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'Cucina Fresca',
40.58136142634979,
-74.11143749968348,
'Italian Restaurant'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'Great Kills Park',
40.548113311332024,
-74.12741661071777,
'Park'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
"Brother's Pizza",
40.62509643518737,
-74.14399008324472,
'Pizza Place'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
```

```
'Empire East',
40.56504284636723,
-74.11429384830024,
 'Asian Restaurant'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'Better Gourmet Health Kitchen',
40.573943887949795,
-74.10637975269493,
'Food & Drink Shop'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'Netcost Market',
40.56467410007768,
-74.13366301684205,
'Grocery Store'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'Cold Stone Creamery',
40.590823,
-74.164608,
'Ice Cream Shop'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'Zumiez',
40.58200672977778,
-74.12327625658739,
'Clothing Store'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'A & S Salumeria and Bakery',
40.6072059,
-74.1636,
'Deli / Bodega'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'Rinconcito Paisa',
40.6257873120808,
-74.15503321906957,
'Latin American Restaurant'),
('Staten Island',
```

```
40.58345413208008,
-74.14960479736328,
"Mario's",
40.589676000000004,
-74.10155,
'Italian Restaurant'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'Marshalls',
40.587315,
-74.166539,
'Department Store'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'West Shore Inn Steakhouse',
40.59414002159549,
-74.18673466874999,
'Steakhouse'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'Da Noi Restaraunt',
40.58778029506639,
-74.19704127424215,
'Italian Restaurant'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'European Wax Center',
40.57306556113113,
-74.10749485222351,
'Health & Beauty Service'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'Pastosa Ravioli',
40.54530971582684,
-74.1653639552597,
'Gourmet Shop'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'Campania Coal Fired Pizza',
40.54320615990769,
-74.16403266834551,
```

```
'Pizza Place'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'Joe & Pat Pizzeria and Restaurant',
40.61304647514354,
-74.12212777422766,
'Pizza Place'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'La Piazza',
40.612126046664976,
-74.15766325835641,
'Pizza Place'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
"Alfonso's Pastry Shop",
40.54503688560972,
-74.1608523375123,
'Bakery'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
"Dunkin'",
40.560887859534056,
-74.13511988649083,
'Donut Shop'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'P.C. Richard & Son',
40.589120196284775,
-74.16661490803084,
'Electronics Store'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
"Piccolino's italian Restaurant",
40.55153846012257,
-74.1497458477389,
'Italian Restaurant'),
('Staten Island',
40.58345413208008,
-74.14960479736328,
'Hilton Garden Inn',
```

```
40.6148942,
-74.1767925,
'Hotel')]]
```

0.7 Used Foursquare api to retrieve location data on boroughs giving us the Borough, borough latitude, borough longitude, venue, venue latitude, venue longitude and venue category then converted I formation into dataframe below

[10]: nearby\_venues

```
Borough Longitude
[10]:
                 Borough
                           Borough Latitude
      0
                    Bronx
                                   40.846649
                                                      -73.878593
      1
                    Bronx
                                   40.846649
                                                      -73.878593
      2
                    Bronx
                                   40.846649
                                                      -73.878593
      3
                    Bronx
                                   40.846649
                                                      -73.878593
      4
                    Bronx
                                   40.846649
                                                      -73.878593
      495
           Staten Island
                                   40.583454
                                                      -74.149605
           Staten Island
                                                      -74.149605
      496
                                   40.583454
           Staten Island
                                                      -74.149605
      497
                                   40.583454
           Staten Island
      498
                                   40.583454
                                                      -74.149605
           Staten Island
      499
                                   40.583454
                                                      -74.149605
                                      Venue
                                             Venue Latitude
                                                              Venue Longitude
                                                                    -73.881604
      0
                      Congo Gorilla Forest
                                                   40.847774
      1
                                JungleWorld
                                                                    -73.877181
                                                   40.845227
      2
                             African Lions
                                                                    -73.878024
                                                   40.847058
      3
                            Grizzly Corner
                                                   40.849023
                                                                    -73.877739
      4
                                 Bronx Zoo
                                                   40.853107
                                                                    -73.878094
      . .
      495
                     Alfonso's Pastry Shop
                                                   40.545037
                                                                    -74.160852
      496
                                    Dunkin'
                                                   40.560888
                                                                    -74.135120
      497
                        P.C. Richard & Son
                                                   40.589120
                                                                    -74.166615
      498
           Piccolino's italian Restaurant
                                                   40.551538
                                                                    -74.149746
                         Hilton Garden Inn
      499
                                                   40.614894
                                                                    -74.176793
```

```
Venue Category
     0
                       Zoo
     1
                       Zoo
     2
                Zoo Exhibit
     3
                Zoo Exhibit
     4
                       Zoo
     495
                    Bakery
     496
                 Donut Shop
     497
          Electronics Store
     498
          Italian Restaurant
     499
                     Hotel
     [500 rows x 7 columns]
[11]: new = nearby_venues[['Borough', 'Venue Category', 'Venue Latitude','Venue_
      →Longitude']].copy()
[12]: df_new = new.rename(columns={'Venue Category': 'Category', 'Venue Latitude':
```

## 0.8 Created a new dataframe containing the only relevant I formation we needed like Borough, category longitude and latitude of venue

```
[13]:
     df_new
[13]:
                 Borough
                                    Category
                                               Latitude Longitude
                                         Zoo 40.847774 -73.881604
      0
                   Bronx
      1
                   Bronx
                                         Zoo 40.845227 -73.877181
      2
                   Bronx
                                 Zoo Exhibit 40.847058 -73.878024
      3
                   Bronx
                                 Zoo Exhibit 40.849023 -73.877739
      4
                   Bronx
                                         Zoo 40.853107 -73.878094
      495 Staten Island
                                      Bakery 40.545037 -74.160852
      496 Staten Island
                                  Donut Shop 40.560888 -74.135120
      497 Staten Island
                           Electronics Store 40.589120 -74.166615
      498 Staten Island Italian Restaurant 40.551538 -74.149746
          Staten Island
                                       Hotel 40.614894 -74.176793
      499
      [500 rows x 4 columns]
[14]: df_new['Category'].value_counts()
[14]: Pizza Place
                               34
      Park
                               26
                               24
      Italian Restaurant
      Bakery
                               24
```

```
Coffee Shop 14
...
Taiwanese Restaurant 1
College Arts Building 1
Hot Dog Joint 1
Theme Park 1
Butcher 1
Name: Category, Length: 155, dtype: int64
```

## 0.9 Found out there is 155 unique places in New York City

```
[15]: print('There are {} Uniques Categories In total .'.

→format(len(df_new['Category'].unique())))
```

There are 155 Uniques Categories In total .

## 0.10 Created a new data frame for the Bronx To determine how many unique places does the Bronx have

```
[16]: df_bronx=df_new[(df_new['Borough'] == 'Bronx')]
    df_bronx
```

```
[16]:
        Borough
                               Category
                                          Latitude Longitude
      0
          Bronx
                                    Zoo 40.847774 -73.881604
      1
          Bronx
                                    Zoo 40.845227 -73.877181
      2
          Bronx
                            Zoo Exhibit 40.847058 -73.878024
      3
          Bronx
                            Zoo Exhibit 40.849023 -73.877739
          Bronx
                                    Zoo 40.853107 -73.878094
      . .
      95
          Bronx
                       Cuban Restaurant 40.837741 -73.834458
      96
          Bronx
                                   Food 40.871159 -73.863050
      97
          Bronx Vietnamese Restaurant 40.866956 -73.897839
                     Italian Restaurant 40.863019 -73.843607
      98
          Bronx
      99
          Bronx
                          Grocery Store 40.824016 -73.856396
```

[100 rows x 4 columns]

```
[17]: print('There are {} Uniques Categories In total the bronx .'.

→format(len(df_bronx['Category'].unique())))
```

There are 42 Uniques Categories In total the bronx .

0.11 Created a new data frame for the Staten Island To determine how many unique places does the Staten Island have

```
[18]: df_staten_island=df_new[(df_new['Borough'] == 'Staten Island')]
     df_staten_island
[18]:
                Borough
                                  Category
                                            Latitude Longitude
     400 Staten Island
                                     Trail 40.586616 -74.146917
     401 Staten Island
                             Grocery Store 40.589997 -74.165715
                          Toy / Game Store 40.581963 -74.166272
     402 Staten Island
     403 Staten Island
                                 Gastropub 40.581222 -74.167654
     404 Staten Island
                            Clothing Store 40.580279 -74.166153
     . .
                                     •••
     495 Staten Island
                                    Bakery 40.545037 -74.160852
     496 Staten Island
                                Donut Shop 40.560888 -74.135120
     497 Staten Island
                         Electronics Store 40.589120 -74.166615
     498 Staten Island Italian Restaurant 40.551538 -74.149746
                                     Hotel 40.614894 -74.176793
     499 Staten Island
     [100 rows x 4 columns]
[19]: print('There are {} Uniques Categories In total in Staten Island .'.
      There are 53 Uniques Categories In total in Staten Island
[20]: df_brooklyn=df_new[(df_new['Borough'] == 'Brooklyn')]
     df_brooklyn
[20]:
           Borough
                               Category
                                         Latitude Longitude
     100 Brooklyn Caribbean Restaurant 40.649091 -73.949243
     101 Brooklyn
                                Theater 40.646110 -73.957175
     102 Brooklyn
                             Restaurant 40.656012 -73.959912
     103 Brooklyn Caribbean Restaurant 40.654953 -73.959783
     104 Brooklyn
                                   Café 40.660007 -73.953362
     . .
     195 Brooklyn
                    American Restaurant 40.681470 -73.955800
     196 Brooklyn Caribbean Restaurant 40.680807 -73.949525
     197 Brooklyn
                            Fish Market 40.677063 -73.969198
     198 Brooklyn
                                 Bakery 40.678468 -73.968684
                          Grocery Store 40.676101 -73.971784
     199
          Brooklyn
     [100 rows x 4 columns]
[21]: print('There are {} Uniques Categories In total in Brooklyn .'.
      →format(len(df_brooklyn['Category'].unique())))
```

There are 61 Uniques Categories In total in Brooklyn .

```
[22]: df_manhattan=df_new[(df_new['Borough'] == 'Manhattan')]
      df_manhattan
[22]:
            Borough
                                  Category
                                             Latitude Longitude
      200
          Manhattan
                                     Field 40.790160 -73.955498
          Manhattan
      201
                                    Museum 40.785276 -73.957411
      202 Manhattan
                                 Reservoir 40.784213 -73.961058
      203 Manhattan
                                Art Museum 40.784333 -73.957765
      204 Manhattan
                                      Café 40.787679 -73.953899
      . .
      295 Manhattan
                              Liquor Store 40.767272 -73.959544
                              Concert Hall 40.773359 -73.982373
      296 Manhattan
      297 Manhattan College Arts Building 40.773749 -73.982829
                         French Restaurant 40.766829 -73.967579
      298 Manhattan
      299 Manhattan
                                   Theater 40.773354 -73.983827
      [100 rows x 4 columns]
[23]: print('There are {} Uniques Categories In total in Manhattan .'.
       →format(len(df manhattan['Category'].unique())))
     There are 59 Uniques Categories In total in Manhattan
     0.12 Created a new data frame for the Queensd To determine how many unique
           places does the Queens have
[24]: df_queens=df_new[(df_new['Borough'] == ' Queens')]
      df_queens
[24]:
          Borough
                             Category
                                        Latitude Longitude
                          Pizza Place 40.758193 -73.795719
      300
            Queens
      301
            Queens
                                 Park 40.747715 -73.808877
      302
            Queens
                           Bagel Shop 40.739460 -73.790554
      303
            Queens
                        Movie Theater 40.741098 -73.784097
      304
                   Athletics & Sports 40.761575 -73.795557
           Queens
      . .
      395
           Queens
                          Pizza Place 40.748445 -73.756498
      396
           Queens
                     Tapas Restaurant 40.770271 -73.793495
      397
            Queens
                                 Park 40.772293 -73.769168
                          Pizza Place 40.761446 -73.770070
      398
            Queens
      399
            Queens
                                  Gym 40.729120 -73.780555
      [100 rows x 4 columns]
[25]: print('There are {} Uniques Categories In total in Queens .'.

→format(len(df queens['Category'].unique())))
```

There are 55 Uniques Categories In total in Queens  $\,$  .

0.13 Took each boroughs unique place count and Created another dataframe containing the total unique places under each borough

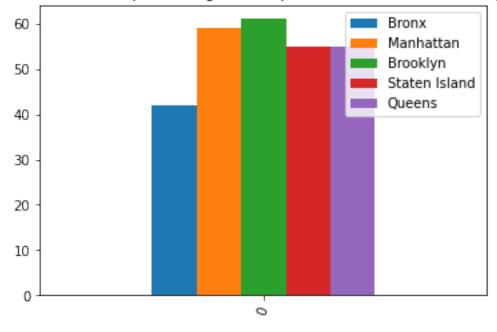
```
[26]: Bronx Manhattan Brooklyn Staten Island Queens 0 42 59 61 55 55
```

0.14 Used the information on the previous datafram to create a bar chart to check which borough has the most unique places

```
[27]: df_category_list.plot.bar( rot=70, title="Number of uniques categories of place_ 

→to vist in each Borough");
```

Number of uniques categories of place to vist in each Borough



0.15	As we can see Brooklyn has the most unique places Between the rest of
	the boroughs of New York

[]: