

ANALYSIS OF Mumbai

Introduction

The project is intended to submit to Coursera-IBM as a Final Capstone project. In this data analysis exercise, we are going to analyse the city of Mumbai, Maharashtra. It is basically for all the tourists to come to visit India. Mumbai is located in the western part of India and is known as the Island City. It has many places to explore and is one of the important tourist destinations of the country. Hence, analysing the data of Mumbai using foursquare api will be highly helpful for new people who are migrating to Mumbai or coming to visit the city for a short span of time. Mumbai is also famous for being the Heart of Bollywood.

Problem Statement

Mumbai usually sees more than a lakh of visitors or tourists per year. Mumbai is not a small city but rather a world itself. A person who is visiting the place for the first time might not be much aware about the places or maybe trouble trying to hunt for them. So this is just an attempt to help the tourists with good restaurants, hotels along with nearby medical shops, hospitals and a few places to visit.

Target Audience

The people who visit Mumbai for holidays or work purpose, or those who are planning to start a new life in Mumbai.

K-Means – Algorithm

→ Why

- The K-means clustering algorithm is used to find groups which have not been explicitly labelled in the data. This can be used to confirm business assumptions about what types of groups exist or to identify unknown groups in complex data sets
- As we are using data source which has to be clustered using unlabelled data, k-means is a better algorithm as fit-to-purpose.

Importing Libraries

```
import pandas as pd

import requests

import json

from pandas.io.json import json_normalize

!pip install geopy

from geopy.geocoders import Nominatim

print ("Importing Libraries Completed !")
```

```
Requirement already satisfied: geopy in /srv/conda/envs/notebook/lib/python3.6/site-packages (2.0.0)
Requirement already satisfied: geographiclib<2,>=1.49 in /srv/conda/envs/notebook/lib/python3.6/site-packages (from geopy) (1.50)
Importing Libraries Completed !
```

```
import numpy as np

import pandas as pd

import matplotlib.cm as cm

import matplotlib.colors as colors

from sklearn.cluster import KMeans

print("Imported")
```

```
Imported
```

```
!pip install folium

import folium
```

```
Requirement already satisfied: folium in /srv/conda/envs/notebook/lib/python3.6/site-packages (0.11.0)
Requirement already satisfied: numpy in /srv/conda/envs/notebook/lib/python3.6/site-packages (from folium) (1.18.5)
```

```
Requirement already satisfied: jinja2>=2.9 in /srv/conda/envs/notebook/
lib/python3.6/site-packages (from folium) (2.11.2)
Requirement already satisfied: requests in /srv/conda/envs/notebook/lib
/python3.6/site-packages (from folium) (2.23.0)
Requirement already satisfied: branca>=0.3.0 in /srv/conda/envs/noteboo
k/lib/python3.6/site-packages (from folium) (0.4.1)
Requirement already satisfied: MarkupSafe>=0.23 in /srv/conda/envs/note
book/lib/python3.6/site-packages (from jinja2>=2.9->folium) (1.1.1)
Requirement already satisfied: idna<3,>=2.5 in /srv/conda/envs/notebook
/lib/python3.6/site-packages (from requests->folium) (2.9)
Requirement already satisfied: certifi>=2017.4.17 in /srv/conda/envs/no
tebook/lib/python3.6/site-packages (from requests->folium) (2020.6.20)
Requirement already satisfied: chardet<4,>=3.0.2 in /srv/conda/envs/not
ebook/lib/python3.6/site-packages (from requests->folium) (3.0.4)
Requirement already satisfied: urllib3!=1.25.0,!=1.25.1,<1.26,>=1.21.1
in /srv/conda/envs/notebook/lib/python3.6/site-packages (from requests-
>folium) (1.25.9)
```

Getting coordinates of Chennai and displaying the map for reference using folium

```
address = 'Mumbai'

geolocator = Nominatim(user_agent="to_explorer")

location = geolocator.geocode(address)

latitude = location.latitude

longitude = location.longitude

print('The geograpical coordinate of Mumbai are {}, {}'.format(latitude, longitude))
```

The geograpical coordinate of Mumbai are 19.0759899, 72.8773928.

```
import folium

mumbai_map = folium.Map(location = [latitude, longitude], zoom_start = 12)

folium.Marker([latitude, longitude]).add_to(mumbai_map)

mumbai_map
```

➔ Map is viewed in the browser

Data

Data for the venues in Mumbai are taken from foursquare api. Foursquare consists of the details of places, their importance, latitudes, longitudes and which category they belong to. Hence, this api would be helpful to analyse the picture of Mumbai. Data is collected using client id and secret created from foursquare website and used for the required analysis.

Obtaining data from foursquare api

```
CLIENT_ID = 'YD2WPTVK0HM53V44CXA4CAMOVY5V0YTSKYXO32UFBXS02JKX'  
# your Foursquare ID
```

```
CLIENT_SECRET =  
'CULFDRVS4USPQMBS4FJCUDTSNL2BSGRGYUSNRM0AYAMCNRRM' # your  
Foursquare Secret
```

```
VERSION = '20180605' # Foursquare API version
```

```
print('Your credentials:')
```

```
print('CLIENT_ID: ' + CLIENT_ID)
```

```
print('CLIENT_SECRET:' + CLIENT_SECRET)
```

```
Your credentials:  
CLIENT_ID: YD2WPTVK0HM53V44CXA4CAMOVY5V0YTSKYXO32UFBXS02JKX  
CLIENT_SECRET: CULFDRVS4USPQMBS4FJCUDTSNL2BSGRGYUSNRM0AYAMCNRRM
```

```
LIMIT = 100 # limit of number of venues returned by Foursquare API
```

```
radius = 5000 # define radius
```

```
url  
'https://api.foursquare.com/v2/venues/explore?&client_id={ }&client_secret={ }&v={ }&ll={ }  
,{ }&radius={ }&limit={ }'.format(  

```

```
    CLIENT_ID,
```

```
    CLIENT_SECRET,
```

```
    VERSION,
```

```
    latitude,
```

```
    longitude,
```

radius,

LIMIT)

url # display URL

Methodology

```
results = requests.get(url).json()
```

results

```
{'meta': {'code': 200, 'requestId': '5f15b1b2bd9c5b4d00fd3568'},
 'response': {'suggestedFilters': {'header': 'Tap to show:',
 'filters': [{'name': 'Open now', 'key': 'openNow'}]},
 'headerLocation': 'Mumbai',
 'headerFullLocation': 'Mumbai',
 'headerLocationGranularity': 'city',
 'totalResults': 234,
 'suggestedBounds': {'ne': {'lat': 19.120989945000044,
 'lng': 72.92491866226877},
 'sw': {'lat': 19.030989854999955, 'lng': 72.82986693773123}},
 'groups': [{'type': 'Recommended Places',
 'name': 'recommended',
 'items': [{'reasons': {'count': 0,
 'items': [{'summary': 'This spot is popular',
 'type': 'general',
 'reasonName': 'globalInteractionReason'}]}],
 'venue': {'id': '4d9b39ed2ae860fc0f5a81cb',
 'name': 'Sofitel Mumbai BKC',
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 'state': 'Mahārāshtra',
 'country': 'India',
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 'Mahārāshtra',
 'India']},
 'categories': [{'id': '4bf58dd8d48988d1fa931735',
 'name': 'Hotel',
 'pluralName': 'Hotels',
 'shortName': 'Hotel',
```

```

        'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/travel/hotel_',
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        'India']},
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        'lat': 19.08664273439014,
        'lng': 72.88983942558215,
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```

```

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            'reasonName': 'globalInteractionReason' } ]},
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            'lng': 72.86937454370329,
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                'India' ]},
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            'shortName': 'Coffee Shop',
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            'primary': True}],
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```

```

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        'state': 'Mahārāshtra',
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        'India']],
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ps/toys_',
        'suffix': '.png'},
        'primary': True}],
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        'lng': 72.86746828365813 } ]},
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        'state': 'Mahārāshtra',
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        'Mumbai 400098',
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        'shortName': 'Hotel',
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vel/hotel_',
        'suffix': '.png'},
        'primary': True}],
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```



```

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              'Mahārāshtra',
              'India' ] ],
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```

```
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'crossStreet': 'BKC',
'lat': 19.068930524673345,
'lng': 72.86973766149534,
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'shortName': 'Coffee Shop',
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d/coffeeshop_',
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```

```

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    'venue': {'id': '4b5b4ecdf964a5206af328e3',
        'name': 'MCA Club',
        'location': {'address': 'Off BKC Road, Bandra (East)',
            'lat': 19.060442786769624,
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        'city': 'Mumbai',
        'state': 'Mahārāshtra',
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                    'lat': 19.068783355242363,
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```

```

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ps/mall_',
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```

```

    'India']},
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            'suffix': '.png'},
        'primary': True}],
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    'reasons': {'count': 0,
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            'lng': 72.89969264247486,
            'labeledLatLngs': [{'label': 'display',
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                'lng': 72.89969264247486}]},
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            'Mahārāshtra',
            'India']},
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        'primary': True}],
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        'cc': 'IN',

```

```

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    'country': 'India',
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    'Mumbai',
    'Mahārāshtra',
    'India']],
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    'pluralName': 'Italian Restaurants',
    'shortName': 'Italian',
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    'suffix': '.png'},
    'primary': True}],
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    'reasonName': 'globalInteractionReason' } ]},
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    'name': "Mani's Lunch Home's Satvika",
    'location': { 'address': 'Vikrant Circle',
    'crossStreet': 'Ghatkopar East',
    'lat': 19.075220371653113,
    'lng': 72.90472805685177,
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    'cc': 'IN',
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    'state': 'Mahārāshtra',
    'country': 'India',
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    'Mumbai 400077',
    'Mahārāshtra',
    'India']],
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    'pluralName': 'Indian Restaurants',
    'shortName': 'Indian',
    'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/foo
d/indian_',
    'suffix': '.png'},
    'primary': True}],
    'photos': { 'count': 0, 'groups': []},
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    'items': [{ 'summary': 'This spot is popular',
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    'name': 'Samvene',
    'location': { 'address': 'Opp Star Plus Office',

```

```

        'crossStreet': 'Marol Naka',
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d/bagels_',
                'suffix': '.png'},
            'primary': True }],
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                'reasonName': 'globalInteractionReason' } ] },
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                'city': 'Mumbai',
                'state': 'Mahārāshtra',
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                    'Mahārāshtra',
                    'India' ] },
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                'shortName': 'Hotel',
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vel/hotel_',
                    'suffix': '.png'},
                'primary': True } ],
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                'items': [{ 'summary': 'This spot is popular',
                    'type': 'general',
                    'reasonName': 'globalInteractionReason' } ] },
            'venue': { 'id': '4b30f8e2f964a52081fd24e3',

```

```

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'location': {'address': 'Sahar Airport Road, Andheri East',
'crossStreet': 'I A Project Road',
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'Mahārāshtra',
'India']],
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'India']],
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```

```

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    'primary': True}},
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    'Mahārāshtra',
    'India']},
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    'suffix': '.png'},
    'primary': True}},
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    'reasonName': 'globalInteractionReason'}]}},
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    'lng': 72.86975055081648,
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    'lng': 72.86975055081648}]},
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    'cc': 'IN',
    'city': 'Mumbai',
    'state': 'Mahārāshtra',

```

```

    'country': 'India',
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ternational Airport Road)',
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    'India']],
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d/asian_',
    'suffix': '.png'},
    'primary': True}],
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    'type': 'general',
    'reasonName': 'globalInteractionReason' } ]},
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    'name': 'Khar Social',
    'location': { 'address': 'Behind Ramee',
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    'lat': 19.068243423955007,
    'lng': 72.83802654231332,
    'labeledLatLngs': [{ 'label': 'display',
    'lat': 19.068243423955007,
    'lng': 72.83802654231332 } ]},
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    'cc': 'IN',
    'city': 'Mumbai',
    'state': 'Mahārāshtra',
    'country': 'India',
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    'Mahārāshtra',
    'India']],
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    'shortName': 'Bar',
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htlife/pub_',
    'suffix': '.png'},
    'primary': True}],
    'photos': { 'count': 0, 'groups': []},
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    'items': [{ 'summary': 'This spot is popular',
    'type': 'general',
    'reasonName': 'globalInteractionReason' } ]},
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    'lat': 19.082161005164256,
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    'labeledLatLngs': [{ 'label': 'display',

```

```

    'lat': 19.082161005164256,
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    'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/dessert_',
    'suffix': '.png'},
    'primary': True}],
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    'reasonName': 'globalInteractionReason'}]},
    'venue': {'id': '5275159f11d265069773cd85',
    'name': 'Starbucks',
    'location': {'address': '15th Road, Red Chillies Building',
    'crossStreet': 'Ramakrishna Mission Road, South Avenue, Santacruz',
    'lat': 19.075523243262623,
    'lng': 72.8317448378628,
    'labeledLatLngs': [{'label': 'display',
    'lat': 19.075523243262623,
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    'state': 'Mahārāshtra',
    'country': 'India',
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    'Mahārāshtra',
    'India']},
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    'primary': True}],
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    'name': 'Mad Over Donuts',

```



```

    'location': {'address': 'R-City Mall, Level 3, LBS Road, Ghatkop
ar West',
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    'lng': 72.90490865707397,
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    'city': 'Mumbai',
    'state': 'Mahārāshtra',
    'country': 'India',
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    'India']},
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    'name': 'MIG Cricket Club',
    'location': {'address': 'Road No. 2',
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    'state': 'Mahārāshtra',
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    'Mahārāshtra',
    'India']},
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    'shortName': 'Sports Club',
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ps/sports_outdoors_',
    'suffix': '.png'},

```

```

        'primary': True}},
        'photos': {'count': 0, 'groups': []}},
        'referralId': 'e-0-4b0587dcf964a5208fa422e3-79'}}]]]]}

```

```

def get_category_type(row):
    try:
        categories_list = row['categories']
    except:
        categories_list = row['venue.categories']

    if len(categories_list) == 0:
        return None
    else:
        return categories_list[0]['name']

```

Converting data in json format to a dataframe for further analysis

```
venues = results['response']['groups'][0]['items']
```

```
nearby_venues = json_normalize(venues)
```

```

filtered_columns = ['venue.name', 'venue.categories', 'venue.location.lat', 'venue.location.lng']
nearby_venues = nearby_venues.loc[:, filtered_columns]

```

```
nearby_venues['venue.categories'] = nearby_venues.apply(get_category_type, axis=1)
```

```
nearby_venues.columns = [col.split(".")[1] for col in nearby_venues.columns]
```

```
nearby_venues.shape
```

```
(80, 4)
```

```
nearby_venues.head()
```

	categories	lat	lng
0	Hotel	19.067448	72.869006
1	Bar	19.069730	72.869761
2	Movie Theater	19.086643	72.889839
3	Coffee Shop	19.069457	72.869375

	categories	lat	lng
4	Toy / Game Store	19.086655	72.889783

Plotting the map of these venues

```
mumbai_map = folium.Map(location = [latitude, longitude], zoom_start = 12)
```

```
for name, latitude, longitude in zip(nearby_venues['name'], nearby_venues['lat'], nearby_venues['lng']):
```

```
    label = '{}'.format(name)
```

```
    label = folium.Popup(label, parse_html = True)
```

```
    folium.CircleMarker(
```

```
        [latitude, longitude],
```

```
        radius = 5,
```

```
        popup = label,
```

```
        color = 'green',
```

```
        fill = True,
```

```
        fill_color = '#3186cc',
```

```
        fill_opacity = 0.7,
```

```
        parse_html = False).add_to(mumbai_map)
```

```
mumbai_map
```

➔ The map is viewed in the file document

```
def getNearbyVenues(names, latitudes, longitudes, radius=500):
```

```
    venues_list=[]
```

```

for name, lat, lng in zip(names, latitudes, longitudes):

    print(name)


    # create the API request URL

    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)


    # make the GET request

    results = requests.get(url).json()["response"]["groups"][0]["items"]


    # return only relevant information for each nearby venue

    venues_list.append([(

        name,

        lat,

        lng,

        v['venue']['name'],

        v['venue']['location']['lat'],

        v['venue']['location']['lng'],

        v['venue']['categories'][0]['name']) for v in results])

```

```
nearby_venues = pd.DataFrame([item for venue_list in venues_list for item in venue_list])
```

```
nearby_venues.columns = ['name',  
                          'categories',  
                          'lat',  
                          'lng',  
                          ]
```

```
return(nearby_venues)
```

Getting the names of the venues listed in map

```
mumbai_venues = getNearbyVenues(names=nearby_venues['name'],  
                                latitudes=nearby_venues['lat'],  
                                longitudes=nearby_venues['lng']  
                                )
```

```
Sofitel Mumbai BKC  
Hitchki  
PVR Cinemas  
Starbucks Coffee: A Tata Alliance  
Hamleys  
Trident  
The Bar Stock Exchange  
Natural's Ice Cream  
Masala Library  
Starbucks Coffee Capital  
MCA Club  
Smoke House Deli (BKC)  
Phoenix Marketcity  
The Irish House Phoenix Marketcity  
212 All Day  
Nilesh Dry Fruits  
IVY Restaurant & Banquets  
Yauatcha  
Theobrama  
Grand Hyatt  
SodaBottleOpenerWala  
Starbucks  
Chembur Post Office Wada Pav  
ZARA  
Naaz Hotel  
Khau Galli  
ITC Maratha
```

Delhi Zaika
JW Marriott Mumbai Sahar
Botticino - Trident Hotel
24 Shisha Lounge
Gloria Jeans Coffee
Emirates First and Business Class Checkin
Glass House @ Hyatt Hotel
Peshawari
Starbucks
Maya
Poptate's
Darshan
Toast And Tonic
Sadguru Juice and Snacks
MCA Club Bar
the chocolate room
Pavilion
The Royal Orchid
The Good Wife
Cream Centre
Pooja Malai Gola
Lamba Da Dhaba
Natural Ice Cream
Club Lounge
Guru Kripa
Vikrant Circle
Hyatt Regency
J W Cafe
Astrix - The Lounge
Jhama Sweets
O Pedro
K 11 Fitness Gym & Academy
L5 Restaurant & Lounge
The Leela
Wok Express BKC
Amreli
Spatika - Spa & Saloon
Nara Thai Restaurant, India
CinCin
Saroj Veg Restaurant
Celini
Mani's Lunch Home's Satvika
Samvene
Taj Santacruz
Glass House (Hyatt Regency)
The Good Food Co.
Chakra Restaurant & Bar
Pan Asian
Khar Social
Kandoi haribhai damodar mithaiwala
Starbucks
Mad Over Donuts
MIG Cricket Club

```
nearby_venues.groupby('name').count()
```

One hot encoding

```
ch_onehot = pd.get_dummies(nearby_venues[['categories']], prefix="", prefix_sep="")
ch_onehot['name'] = nearby_venues['name']
fixed_columns = [ch_onehot.columns[-1]] + list(ch_onehot.columns[:-1])
ch_onehot = ch_onehot[fixed_columns]
ch_onehot.head()
```

	name	Airport Service	American Restaurant	Asian Restaurant	Bagel Shop	Bar	Beer Garden	Café	Chinese Restaurant	Clothing Store	...	Punjabi Restaurant	Restaurant
0	Sofitel Mumbai BKC		0	0	0	0	0	0	0	0	0	...	
1	Hitchki		0	0	0	0	1	0	0	0	0	...	
2	PVR Cinemas		0	0	0	0	0	0	0	0	0	...	
3	Starbucks Coffee: A Tata Alliance		0	0	0	0	0	0	0	0	0	...	
4	Hamleys		0	0	0	0	0	0	0	0	0	...	

```
ch_grouped = ch_onehot.groupby('name').mean().reset_index()
ch_grouped
```

	name	Airport Service	American Restaurant	Asian Restaurant	Bagel Shop	Bar	Beer Garden	Café	Chinese Restaurant	Clothing Store	...	...
0	212 All Day	0	0	0	0	0	0	1	0	0	...	...
1	24 Shisha Lounge	0	0	0	0	0	0	0	0	0	...	...
2	Amreli	0	0	0	0	0	0	0	0	0	...	...
3	Astrix - The Lounge	0	0	0	0	1	0	0	0	0	...	...
4	Botticino - Trident Hotel	0	0	0	0	0	0	0	0	0	...	...
...
73	Vikrant Circle	0	0	0	0	0	0	0	0	0	...	...
74	Wok Express BKC	0	0	0	0	0	0	0	0	0	...	...
75	Yauatcha	0	0	0	0	0	0	0	0	0	...	...
76	ZARA	0	0	0	0	0	0	0	0	1	...	...
77	the chocolate room	0	0	0	0	0	0	0	0	0	...	...

78 rows x 39 columns

```
def return_most_common_venues(row, num_top_venues):
```

```
    row_categories = row.iloc[1:]
```



```
row_categories_sorted = row_categories.sort_values(ascending=False)
```

```
return row_categories_sorted.index.values[0:num_top_venues]
```

Sorting the venues for further analysis

```
num_top_venues = 10
```

```
indicators = ['st', 'nd', 'rd']
```

```
# create columns according to number of top venues
```

```
columns = ['name']
```

```
for ind in np.arange(num_top_venues):
```

```
    try:
```

```
        columns.append('{} {} Most Common Venue'.format(ind+1, indicators[ind]))
```

```
    except:
```

```
        columns.append('{} th Most Common Venue'.format(ind+1))
```

```
venues_sorted = pd.DataFrame(columns=columns)
```

```
venues_sorted['name'] = ch_grouped['name']
```

```
for ind in np.arange(ch_grouped.shape[0]):
```

```
    venues_sorted.iloc[ind, 1:] = return_most_common_venues(ch_grouped.iloc[ind, :],  
num_top_venues)
```

```
venues_sorted.head()
```

	name	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
0	212 All Day	Café	Vegetarian / Vegan Restaurant	Coffee Shop	Food Truck	Food & Drink Shop	Fast Food Restaurant	Donut Shop	Dim Sum Restaurant	Dessert Shop	Deli / Bodega
1	24 Shisha Lounge	Lounge	Vegetarian / Vegan Restaurant	Coffee Shop	Food & Drink Shop	Fast Food Restaurant	Donut Shop	Dim Sum Restaurant	Dessert Shop	Deli / Bodega	Clothing Store
2	Amreli	Fast Food Restaurant	Vegetarian / Vegan Restaurant	Coffee Shop	Food Truck	Food & Drink Shop	Donut Shop	Dim Sum Restaurant	Dessert Shop	Deli / Bodega	Clothing Store

	name	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
3	Astrix - The Lounge	Bar	Vegetarian / Vegan Restaurant	Coffee Shop	Food Truck	Food & Drink Shop	Fast Food Restaurant	Donut Shop	Dim Sum Restaurant	Dessert Shop	Deli / Bodega
4	Botticino - Trident Hotel	Italian Restaurant	Vegetarian / Vegan Restaurant	Coffee Shop	Food & Drink Shop	Fast Food Restaurant	Donut Shop	Dim Sum Restaurant	Dessert Shop	Deli / Bodega	Clothing Store

Clustering

```
kclusters = 5

ch_clustering = ch_grouped.drop('name', 1)

kmeans = KMeans(n_clusters=kclusters, random_state=0).fit(ch_clustering)

kmeans.labels_[0:10]

array([0, 0, 0, 4, 0, 0, 1, 0, 0, 0], dtype=int32)

ch_merged = results

ch_merged = nearby_venues.join(venues_sorted.set_index('name'), on='name')

ch_merged.head()
```

	name	categories	lat	lng	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
0	Sofitel Mumbai BKC	Hotel	19.067448	72.869006	Hotel	Vegetarian / Vegan Restaurant	Coffee Shop	Food & Drink Shop	Fast Food Restaurant		
1	Hitchki	Bar	19.069730	72.869761	Bar	Vegetarian / Vegan Restaurant	Coffee Shop	Food Truck	Food & Drink Shop		

name	categories	lat	lng	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
2	PVR Cinemas	Movie Theater	19.086643	72.889839	Movie Theater	Vegetarian / Vegan Restaurant	Coffee Shop	Food & Drink Shop	Fast Food Restaurant	
3	Starbucks Coffee: A Tata Alliance	Coffee Shop	19.069457	72.869375	Coffee Shop	Vegetarian / Vegan Restaurant	Food Truck	Food & Drink Shop	Fast Food Restaurant	
4	Hamleys	Toy / Game Store	19.086655	72.889783	Toy / Game Store	Vegetarian / Vegan Restaurant	Coffee Shop	Food Truck	Food & Drink Shop	Fast Food Restaurant

Conclusion

From the above analysis, it clearly shows few common places and most famous places of Mumbai. This list will definitely help a tourist reach to famous places and places.

THE END