Introduction:

Data plays a vital role in today's world. Every industry for example medicine, healthcare, retail, banking, tourism, etc. have started to lay business strategies around the outcome of data analytics. An on-going situation where data is playing a vital role for many decisions related to medicines, travel, statistics, etc. would be the Coronavirus outbreak. The medicine and pharmaceutical industry are focussing on data to identify the increasing demand for masks, flu-related medications and hand sanitizers and alert the service providers to be able to supply to these demands .The travel and tourism industry are analysing the risk involved across the globe due to the consequences of the outbreak.

There are a number of scenarios in today's world where a lot can be inferred with data. The business scenario which I have picked for my project is as follows:

A company in the "Travel and Living" category decided to make a show to explore the most popular cuisines in New York City. They conducted a survey among people randomly and observed that the Indian cuisine is pretty popular in NY among others such as Mexican, Chinese, Thai, etc. They turned to their data analysis team to help them narrow down on the options and get the list of the best restaurants in terms of ratings, likes, etc. which they would like to consider exploring for their show.

Data:

For this project we need the following data:

1. New York City data that contains Borough, Neighbourhoods along with their latitudes and longitudes

- Data Source: https://cocl.us/new_york_dataset
- Description: This data set contains the required information. And we will use this data set to explore various neighbourhoods of New York City.
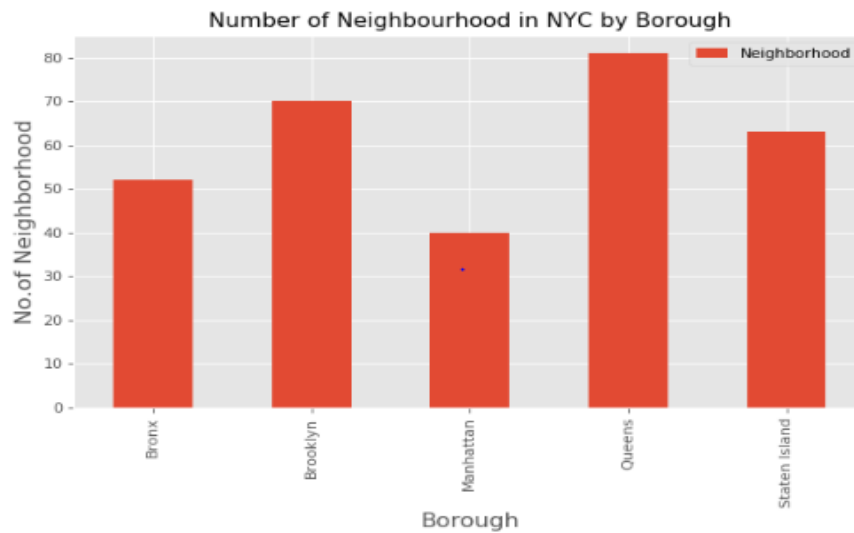
```
new_york_data.head()
```

Out[3]:

	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

```
In [4]: new_york_data.shape
Out[4]: (306, 4)
```

Number of Neighbourhood in NYC by Borough

2. Indian restaurants in New York City.

- Data Source: Foursquare API
- Description: By using this API we will filter all the venues to get only Indian restaurants and their attributes.

Sample data:


```
In [18]: indian_rest_ny.head()
```

Out[18]:

	Borough	Neighborhood	ID	Name
0	Bronx	Woodlawn	4c0448d9310fc9b6bf1dc761	Curry Spot
1	Bronx	Parkchester	4c194631838020a13e78e561	Melanies Roti Bar And Grill
2	Bronx	Parkchester	55dfa36a498e164ef19bef7b	Premium Sweets & Restaurant
3	Bronx	Spuyten Duyvil	4c04544df423a593ac83d116	Cumin Indian Cuisine
4	Bronx	Concourse	551b7f75498e86c00a0ed2e1	Hungry Bird