

## Data Description:

Mumbai City's demographics show that it is a large and ethnically diverse metropolis. With its diverse society, comes diverse infrastructure. There are many different kinds of infrastructure in Mumbai City, each belonging to different categories like Hospitals, Schools, Colleges, Hotels, etc.

Following datas are required for this project :

- Mumbai Pincode ( Scraped from web source)
  - o Data source: <https://mumbai7.com/postal-codes-in-mumbai/>
  - o Description: Contain a list of pin codes, postal office names, city which can be used to discover all postal office of Mumbai.
- Mumbai City data contain list pin codes, postal office names, city along with their latitude and longitude.
  - o Data Source :
  - o Description: This data set contains the required information. And we will use this data set to explore various neighborhoods of Mumbai City.
- Different kinds of infrastructures in each neighborhood of Mumbai City.
  - o Data source: Foursquare API
  - o Description: By using this API we will get all the venues in each postal office. We can filter these venues to get different infrastructures and venues.
- GeoSpace data
  - o Data source : <https://github.com/geospace-code/pymap3d>
  - o Description: By using this geospace data, we will get the latitude and longitude coordinates of the postal office of Mumbai.

Using this data will allow exploration and examination to answer the questions. This is a project that will make use of many data science skills, from web scraping (mumbai7.com), working with API (Foursquare), data cleaning, data wrangling and map visualization (Folium) and to machine learning (K-means clustering).