

## 2.Datasets:

### 2.1.Data Source:

#### Dataset[1].[NYC Property Sales](https://www.kaggle.com/new-york-city/nyc-property-sales)

This dataset is a record of every building or building unit (apartment, etc.) sold in the New York City property market over a 12-month period. This dataset acquired from the KAGGLE dataset(<https://www.kaggle.com/new-york-city/nyc-property-sales>). This dataset has the following columns:

**BOROUGH, NEIGHBORHOOD, BUILDING CLASS CATEGORY, TAX CLASS AT PRESENT, BLOCK, LOT, EASE-MENT, BUILDING CLASS AT PRESENT, ADDRESS, APARTMENT NUMBER, ZIP CODE, RESIDENTIAL UNITS, COMMERCIAL UNITS, TOTAL UNITS, LAND SQUARE FEET, GROSS SQUARE FEET, YEAR BUILT, TAX CLASS AT TIME OF SALE, BUILDING CLASS AT, TIME OF SALE, SALE PRICE, SALE DATE**

Columns which are used in this project are:

**[1].BOROUGH:** Newyork state has 5 boroughs namely Manhattan (1), Bronx (2), Brooklyn (3), Queens (4), and Staten Island (5). The name of the borough in which the corresponding property is located.

**[2].NEIGHBORHOOD:** Neighborhood name in a borough where the property located.

**[3].BUILDING CLASS CATEGORY:** Category of property describing whether it is Condos Apartment or for rental or elevator apartment or loft apartment.

**[4].SALE PRICE:** Corresponding Sale Price of property in real estate.

#### Dataset[2]. [Neighborhoods in New York City](https://en.wikipedia.org/wiki/Neighborhoods_in_New_York_City)

This dataset is scrapped using BeautifulSoup from Wikipedia page which contains list of neighborhoods([https://en.wikipedia.org/wiki/Neighborhoods\\_in\\_New\\_York\\_City](https://en.wikipedia.org/wiki/Neighborhoods_in_New_York_City)). The dataset contains the following columns:

1Community\_board, Area(km<sup>2</sup>), Population census, Pop./km<sup>2</sup>, Neighborhoods

This dataset is merely used to get more neighborhood in a borough and also get population census in each neighborhood

**Dataset[3].Four Square API:** Four square API is used to get the location of each neighborhood and venue around the neighborhood using requests.