

Capstone Project-1 EDA on Airbnb NY By: Paritosh Joshi



Objective

- 1. Defining Problem Statement
- 2. Exploratory Data Analysis
- 3. Obtaining Critical Insights



What Is Airbnb?

- Airbnb, as in "Air Bed and Breakfast," is a service that lets property owners rent out their spaces to travelers looking for a place to stay. Travelers can rent a space for multiple people to share, a shared space with private rooms, or the entire property for themselves.
- The Airbnb Dataset Lists the number of spaces available with 16 columns describing various attributes.



Data Summary

Id- It provides a unique id to each listing in the dataset.

Name-It describes the property in a concise manner.

Host_id-It is used to ascertain the ownership of a certain individual

Host_name-It is the name of the property owner

Neighbourhood_group-It basically categorizes neighbourhood into five groups Bronx,Brooklyn, Manhattan,Staten Islands and Queens

Neighbourhood-It designates the location of a property.

Lattitude-It Specifies the Lattitude of the property.

Longitude-It denotes the Longitude of the property.

Room_type-It classifies the type of property into Private_Room, Shared_Room and Entire_Apartment.



Data Summary

Price- It provides the price of each listed property.

Minimum_Nights-It gives the minimum night one needs to pay for in the property.

Number_of_reviews-It is used to ascertain the number of reviews received by a property.

Reviews_per_month-It denotes the number of reviews per month.

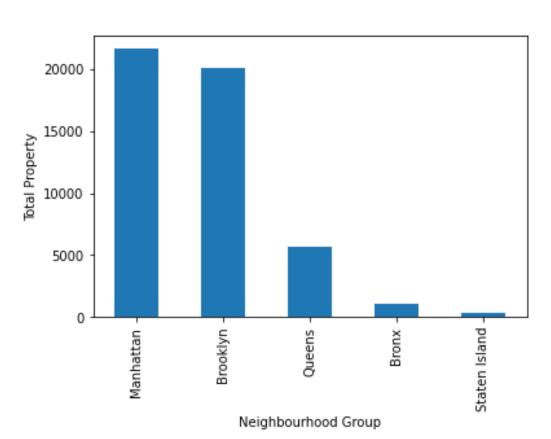
Calcuated_host_listings_count-It corresponds to the number of properties hosted by the unique host_id

Availability_365-The number of days the property is available in a year.

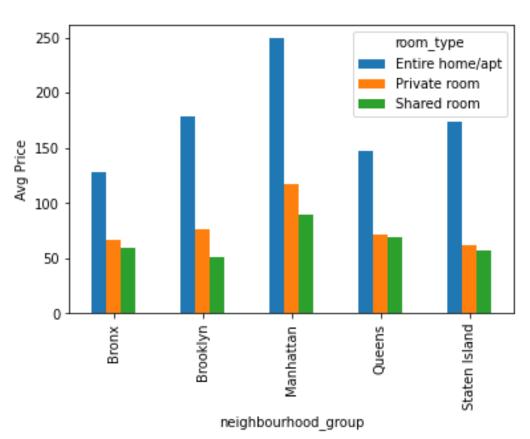
Map of New York City(NYC)



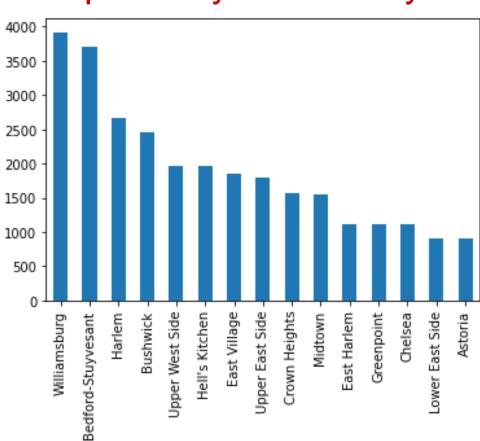




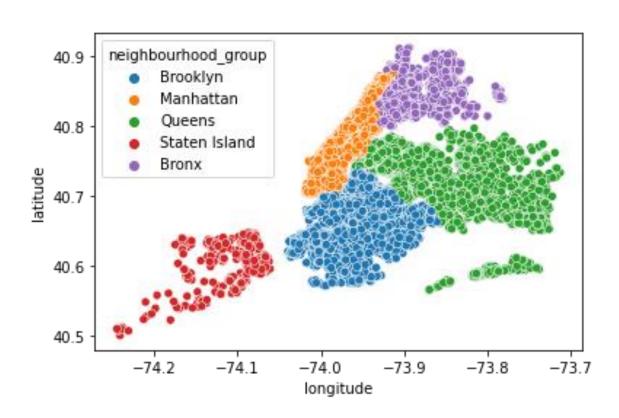




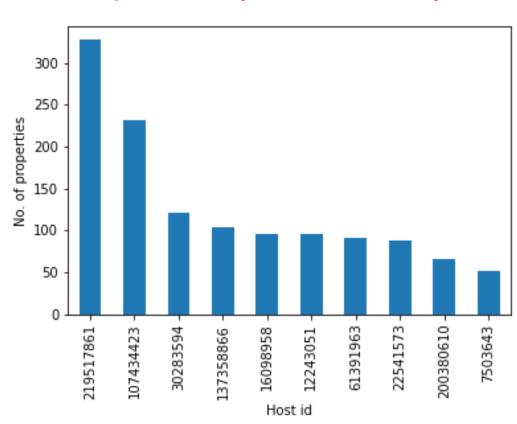




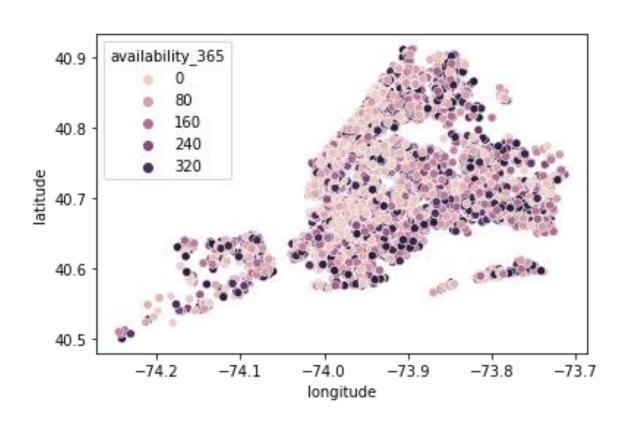














Conclusions

- **1**. host_id reveals that some host have a huge number of property ownership above 300.
- 2. The Majority of the listings are located in Manhattan and Brooklyn whereas Bronx and Staten Island have a miniscule share.
- 3. Manhattan is the most expensive neighbourhood_group followed by Brooklyn Staten Island Queens and Bronx.
- 4. Most Listings offer Entire home followed by Private Room and Shared Room
- 5. Brooklyn offers nearly the same number of private rooms and entire home whereas Manhattan offers highest number of entire homes followed by private rooms.



Conclusions

- **6**. Listing of shared room is very little and staten islands and bronx offer very few shared rooms.
- 7. Williamsburg, Bedford-Stuyvesant and Harlem are the most listed neighbourhood.

8. Brooklyn and Manhattan has the majority share of listings.