

AGENDA

- Objective
- Data Preparation
- Findings and Visualizations
- Appendix

OBJECTIVE

- Airbnb is an online platform using which people can rent their unused accommodations.
- During the covid time, for the past few months Airbnb incurred a huge loss and has seen a major decline in revenue.
- Now that the restrictions have started lifting and people have started to travel more, Airbnb is aiming to bring up the business and ready to provide services to customers.
- Airbnb wants to make sure that it is fully prepared for this change.
- So, analysis has been done on a dataset consisting of various Airbnb listings in New York.

Data Preparation

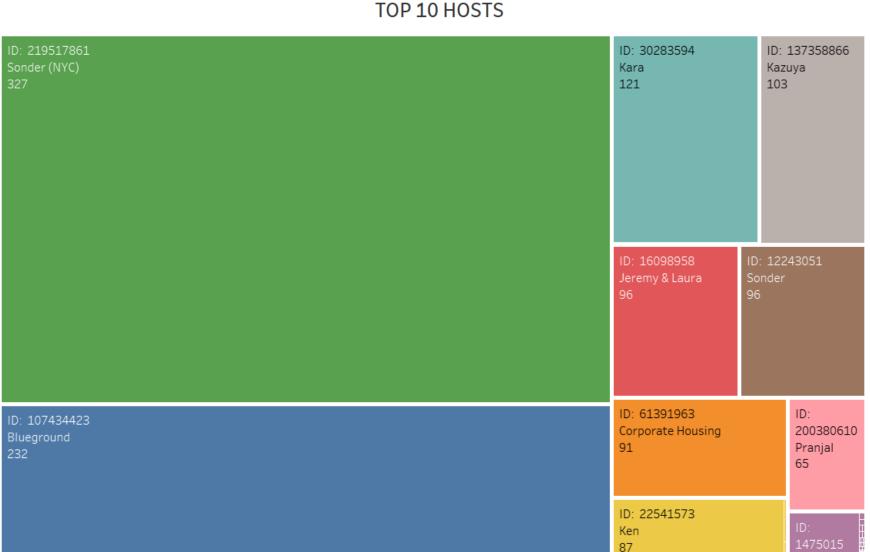
- Cleaned data to remove any missing values and duplicates.
- Created significant columns.
- Extracted essential features and applied group aggregation.

POPULAR HOSTS

☐ Top 10 popular hosts have been filtered out using below formula.



- Host Sonder with ID 219517861 has been booked most number of times i.e. 327.
- Host Blueground with ID 107434423 is the second popular host which has been booked 232 times.
- ☐ There are other hosts like Kara, Kazuya, Jeremy and Laura, etc that fall under top 10 hosts.



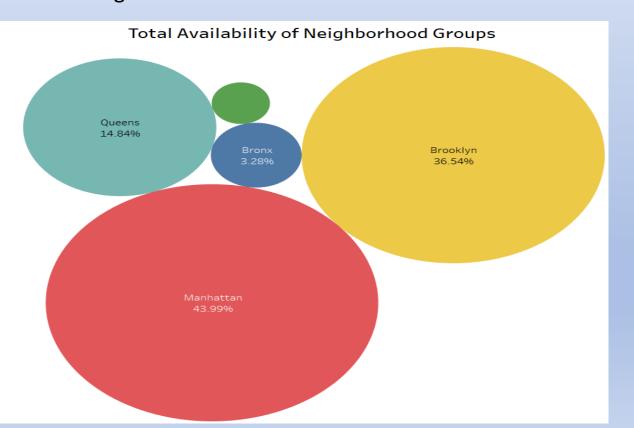
Availability vs Price for Top 10 Neighbourhood

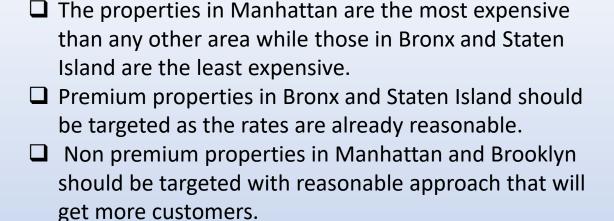
- Availability of Bedford is highest and its price is on the lower side. It is a good choice for customers.
- ☐ After Bedford, Bushwick follows the same trend.
- ☐ Financial District and Midtown availability is low but it's price is costly.
- On the other hand, Williamsburg price and availability are average.

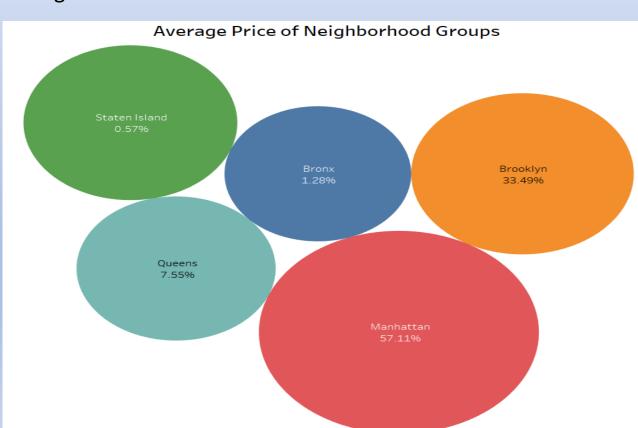


Total Availability & Average Price of Neighborhood Groups

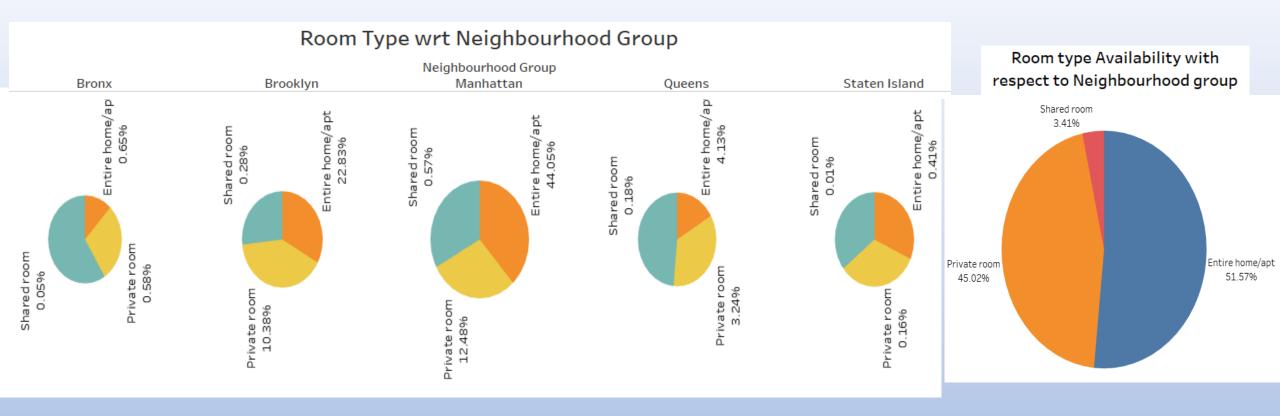
- ☐ The Availability of listed properties in Manhattan is around 43.99% and Brooklyn around 36.54%, which is highest among all neighbourhoods.
- ☐ The average price of listed properties in Manhattan is around 57.11% and Brooklyn around 33.49%, which is highest among all neighbourhoods.







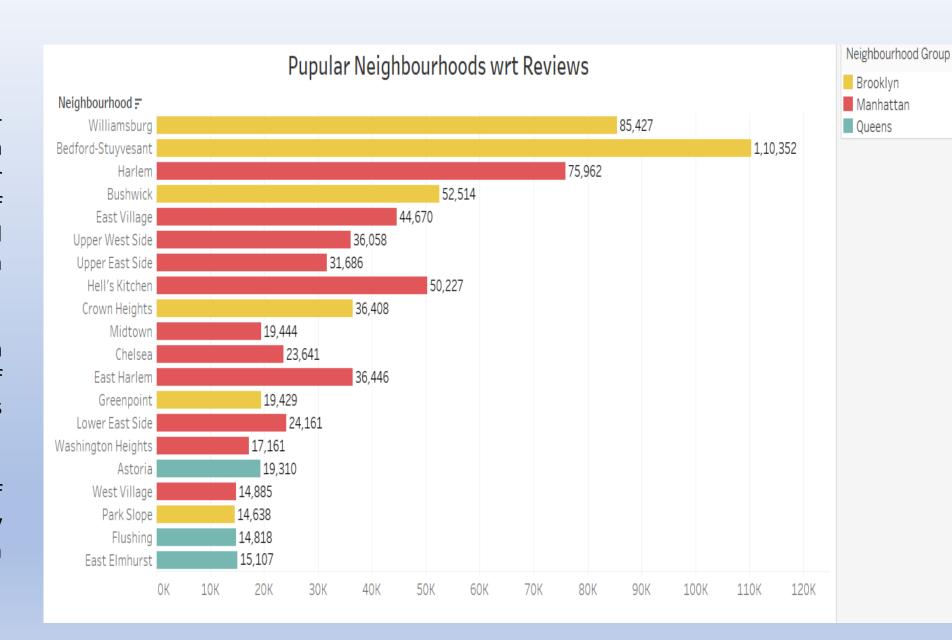
Room type with respect to Neighbourhood group



- ☐ There are three types of rooms Entire home/Apartment, Private room & shared room.
- ☐ Overall, customers appear to prefer private rooms (45%) or entire homes (52%) in comparison to shared rooms (2.4%).
- ☐ Airbnb can concentrate on promoting shared rooms with discounts to increase bookings and also acquire more private listings.

Popular Neighbourhoods wrt Reviews

- We see that Bedford-Stuyvesant from Brooklyn is the highest popular with 1,10,352 no of reviews in total followed by Williamsburg with 85,427.
- ☐ Harlem from Manhattan got the highest no of reviews followed by Hell's kitchen.
- ☐ The higher number of customer reviews imply higher satisfaction in these localities.



DESCRIPTION OF COLUMNS

APPENDIX

- Performed an extensive analysis of the New York Airbnb Dataset.
- We cleaned the dataset using Python.
- Extracted essential features and applied group aggregation.
- Generated charts and visual representations using Tableau.



Column	Description
id	listing ID
name	name of the listing
host_id	host ID
host_name	name of the host
neighbourhood_group	location
neighbourhood	area
latitude	latitude coordinates
longitude	longitude coordinates
room_type	listing space type
price	
minimum_nights	amount of nights minimum
number_of_reviews	number of reviews
last_review	latest review
reviews_per_month	number of reviews per month
calculated_host_listings_count	amount of listing per host
availability_365	number of days when listing is available for booking