Storytelling Case Study: Airbnb, NYC

Presentation 2

By Group Members:-

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Problem Background and End Objective

- Airbnb is an online marketplace that connects people who want to rent out their homes with people who are looking for accommodations in specific locales.
- For the past few months, during the Covid time, Airbnb faced a huge loss in revenue.
- Now that the restrictions have started lifting and people have started to travel more, Airbnb wants to make sure that it is fully prepared for this change.
- Analysis has been done on a dataset consisting of various Airbnb listings in New York.

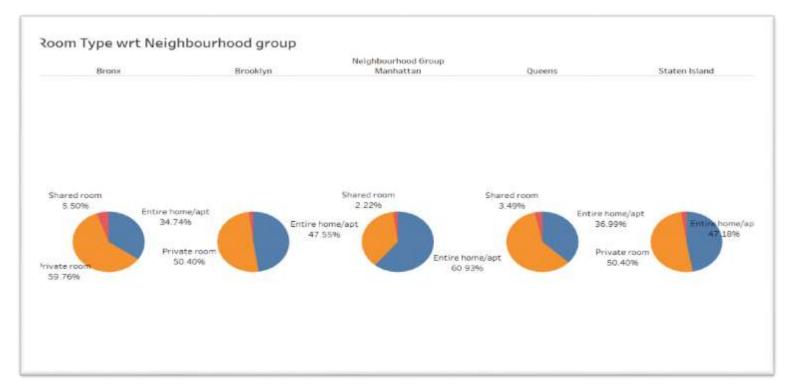
Data Preparation

Data Understanding

• Data Cleaning: To identify and remove any missing values and duplicate values and dropped insignificant columns.

• Outliers Treatment: Identified outliers

Room Type w.r.t. Neighbourhood Group



- Customer tends to prefer Entire home or Apartment and Private rooms.
- Airbnb needs to focus on increasing bookings for **Shared Rooms** by promoting some exciting offers or discounts.
- There are very less Shared rooms present in each neighborhood.

- There are three types of rooms:-
 - 1. Entire home or Apartment
 - 2. Private Room
 - 3. Shared Room.
- Manhattan has the highest (61%) contribution in Entire home or Apartment.
- Bronx and Queens have around 60% contribution in Private Rooms.

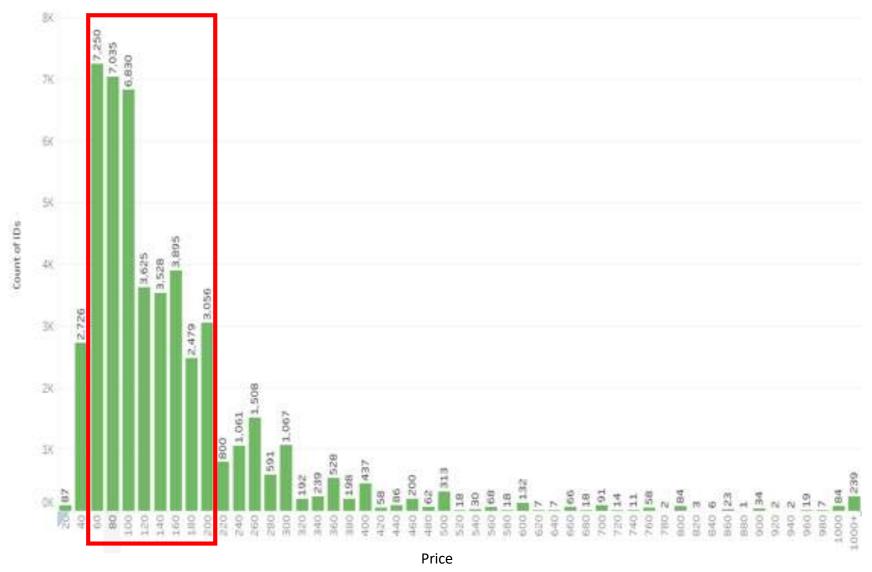
Neighborhood vs Availability w.r.t. Prices

Neighborhood vs Availability



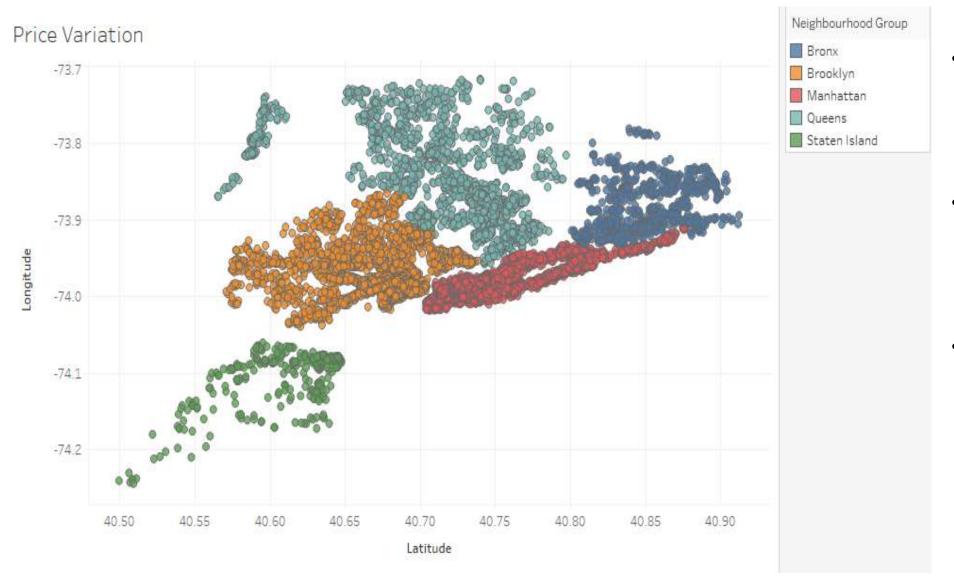
- Bedford neighborhood has the highest availability. So, It can be a good option for customers.
- Followed by Williamsburg also has good availability. This could be due to its expensive prices.
- Financial District has the lowest availability among all. Also, it has cheaper prices so this could be a budget-friendly option for customers.

Price Range Analysis



As we can see that, price range between \$40 - \$200 is preferred by the majority of the customers as the majority volume of the bookings is done within this price range.

Price Variation w.r.t. Geography



- As we can see that, Airbnb has a good business in Brooklyn & Queens.
- There are maximum listings in Brooklyn due to high population density.
- Staten Island has the least number of listings, this might be due to low population density.

Price Variation

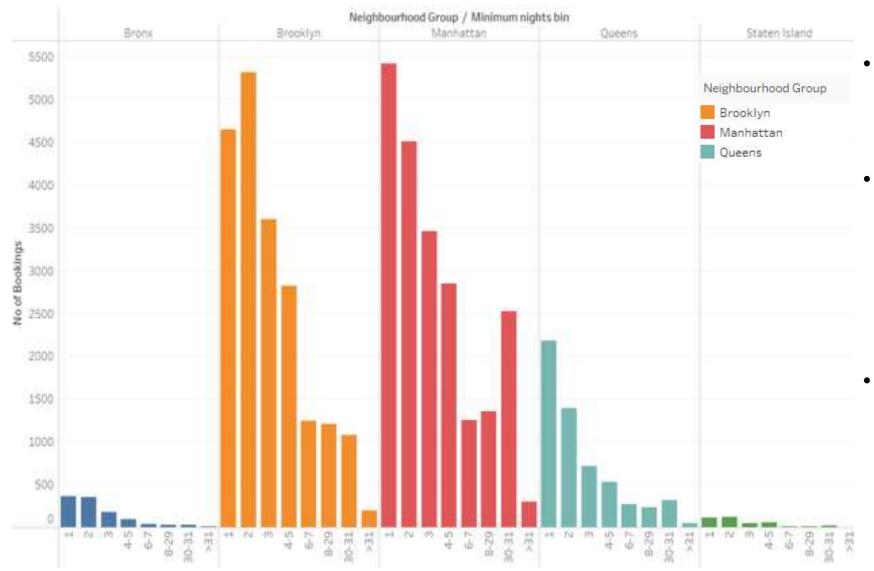
Price Variation

Neighbourhood Group



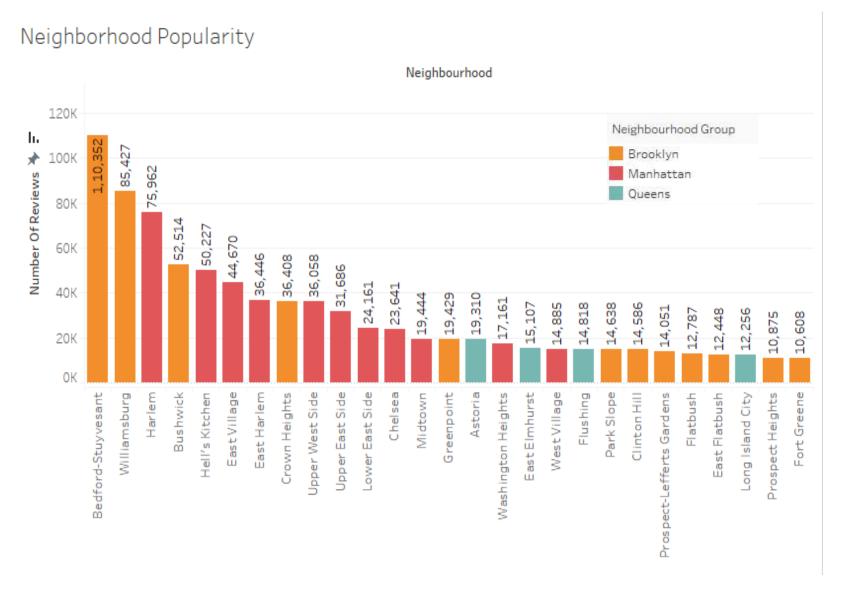
- The Entire home/ apartment room type in Manhattan is the most expensive i.e. \$249, which is higher than the overall average.
- Private rooms in Manhattan has the highest average price.
- Shared Room type is the cheapest i.e. \$50.5 in Brooklyn as well as across overall neighborhood groups.

Bookings w.r.t. Minimum Nights



- The listings with Minimum nights 1-5 have the highest number of bookings.
- Manhattan & Brooklyn have a higher number of 30-day bookings as compared to the other neighborhoods. The reason could be tourists booked for long stays.
- We can see an increase in bookings in the first 30 days, this could be due to customers who rent out on a monthly basis.

Neighbourhood Popularity



- As we can see that, **Bedford-Stuyvesant** from **Brooklyn** is the most popular Neighbourhood among all other neighborhood groups with 1,10,352 No. of reviews.
- Harlem from Manhattan got the highest no of reviews and is the most popular neighborhood in Manhattan.
- The higher number of customer reviews shows higher customer satisfaction in the respective neighborhood.