# Airbnb analysis: For Data Analysis Managers and Lead Data Analyst

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## Agenda

- Objective
- o Background
- Key Findings
- Recommendations
- Appendix: Data Methodologies

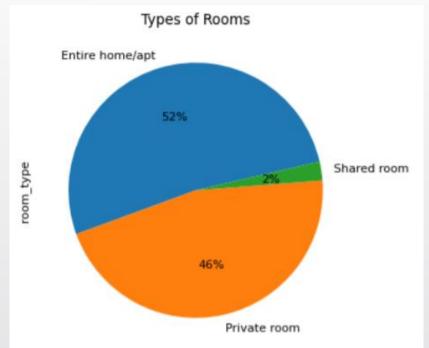
### Objectives

To better understand customers needs at Airbnb
Measures to be taken to gain more traction
To give accurate recommendations to the Top
Management at Airbnb

### Background

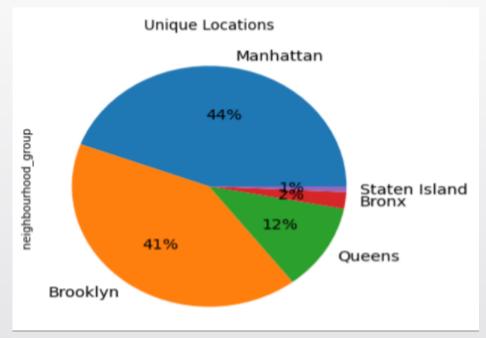
- Airbnb is an American company that operates an online marketplace for lodging, primarily homestays for vacation rentals, and tourism
- o The company has seen a major decline in revenue in the past few months
  - Due to lifting of travel restrictions, the company is expecting to be prepared to target the customers

### Room Type- Analysis



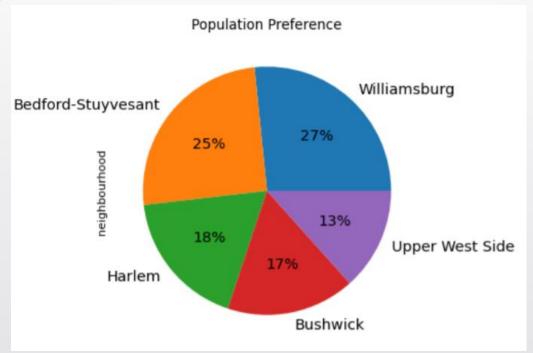
- The most popular room type seems to be the Entire home/apt with 52% of the share, hence customers prefer larger spaces for vacationing
  - o Private Rooms account for a close second with 46% and 2% prefer Shared rooms
- Hence we can focus on these two types of rooms namely: Entire home/apt and Private
   Rooms since they are the most popular

#### Which Neighborhood is Preferred?



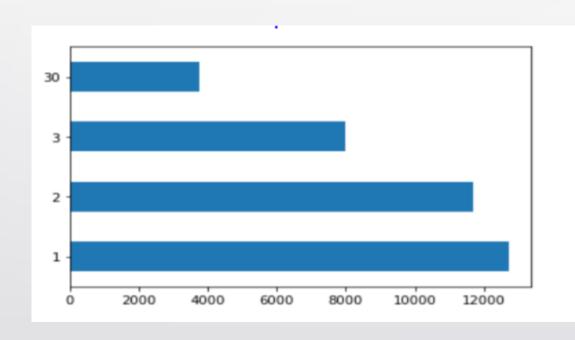
- Manhattan is the most popular neighborhood with 44% and following closely with Brooklyn at 41% of the share
  - o Queens accounts for 12% of the share and Bronx and Staten Island 2% and 1% respectively
  - o Therefore Manhattan and Brooklyn are the most popular places and Staten Island is the least popular

#### Top 5 Neighborhoods



- It is clearly observed that Williamsburg is the most popular neighborhood amongst
   Airbnb customers
- Followed by Bedford-Stuyvesant with 25% of customers preferring this neighborhood
   The pie chart clearly depicts the top 5 neighborhood in New York City

# How many Nights do customers prefer to stay for?



- The Vertical column measures the no. of nights
- Horizontal column measures the no. of customers
- It is clear that around 12,000 customers prefer staying for 1 night, and is the most popular option

#### The Average price for Airbnb Services

```
data.price.describe()
count
         48895.000000
           152.720687
mean
std
           240.154170
min
             0.000000
25%
            69.000000
50%
           106.000000
75%
           175.000000
         10000,000000
max
Name: price, dtype: float64
```

- From the illustration given we can observe that the average price for an Airbnb is \$152.72
- The Standard deviation is 240.15, which means the prices vary significantly
- The maximum price for a stay is \$10,000

#### Recommendations

As observed the leaders at Airbnb must: o Increase share of Entire home/ apt and Private rooms available

- o Target Manhattan city and Brooklyn as they are most popular among customers
  - o Focus on the top neighborhoods for stays

#### APPENDIX: DATA METHODOLOGY

- For better understanding we have the attached the methodology document for your reference
   We have explained the rationale behind the steps taker

C:\Users\User\Desktop\Methodology-Cassia,
Pieyush.pdf