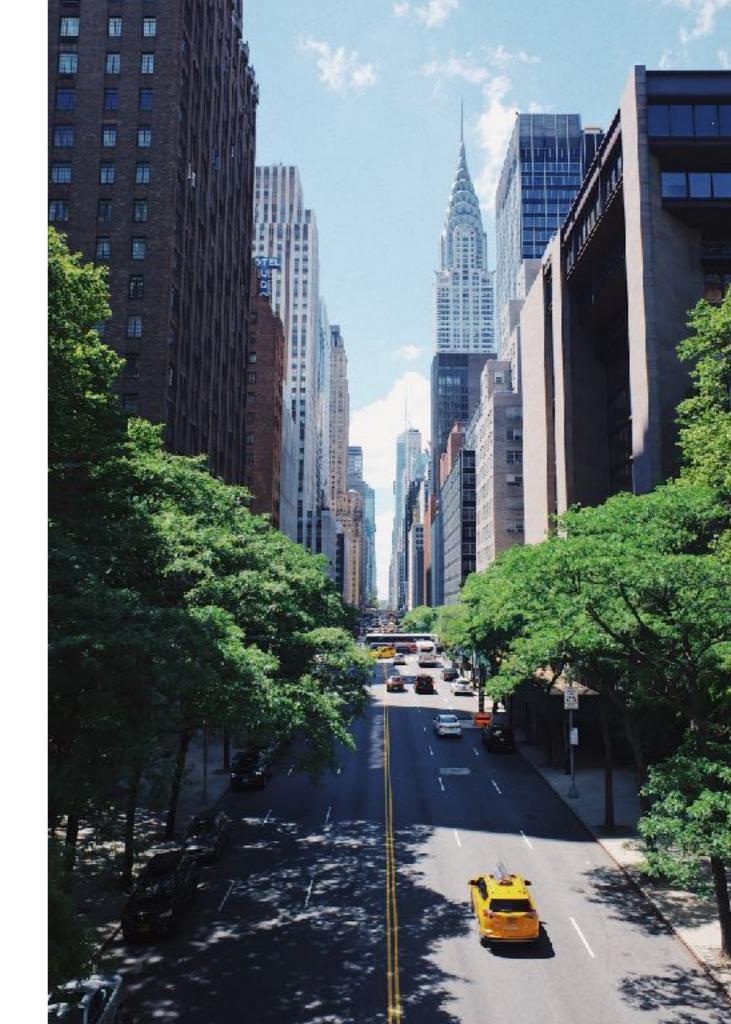


Analysis of Airbnb Data Using Tableau

Prepared by Nivedita Kalla

- Objective
- Visualisation
- Inference



Objective

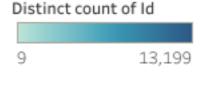
- Looking for underserved areas of New York that can be considered for expansion by the client.
- Factors to consider Business and Corporate Clients who will prefer proximity to commercial areas and relatively quick access. They are seeking a cost effective alternative to hotels in the city.



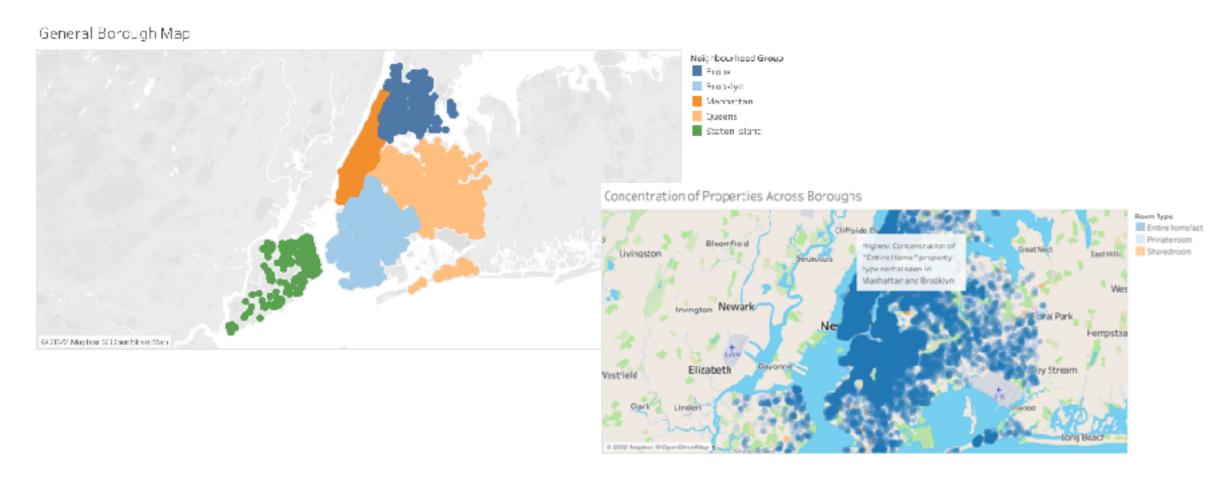
- Looking at the current spread of airbnb properties.
- 1) We find that Entire home/ apartments make for a more popular renting option across all boroughs.

Number of Properties across Different Boroughs (Divided by Property Type)

	Neighbourhood Group				
Room Type	Bronx	Brooklyn	Manhattan	Queens	Staten Island
Entire home/apt	379	9,559	13,199	2,096	176
Private room	652	10,132	7,982	3,372	188
Shared room	60	413	480	198	9



 2) Highest Concentration of the same is found in Manhattan and Brooklyn. We can see that by comparing a general borough map with a property density map across the city.



Shared room

1.352

 We further find that the popularity matrix across the city paints a slightly different picture.
 We use the measure of Average Reviews per month as a proxy for popularity.

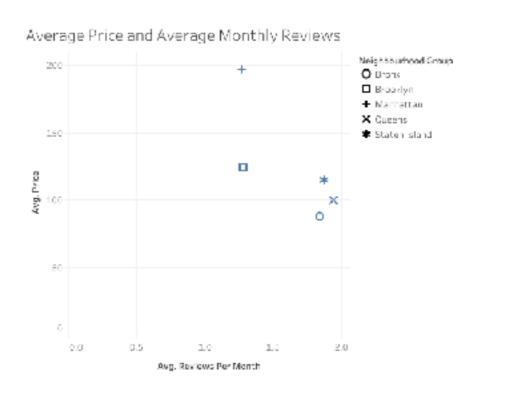
4)The more expensive Manhattan isn't exactly the most popular. In fact, Queens leads the way here

Average Reviews Neighbourhood Group Avg. Reviews Per Month Staten 1.071 2.238 Island Room Type Brooklyn Manhatt.. Queens 2.074 Entire home/apt 2.238 1.318 1.142 1.9G7 1.642 1.256 1.449 1.948 1.699 Private room

1.793

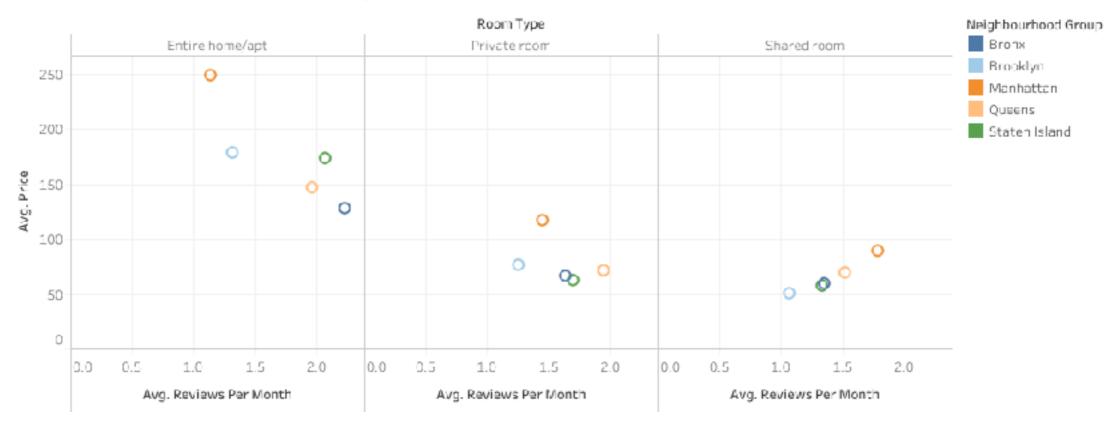
1.523

1.332

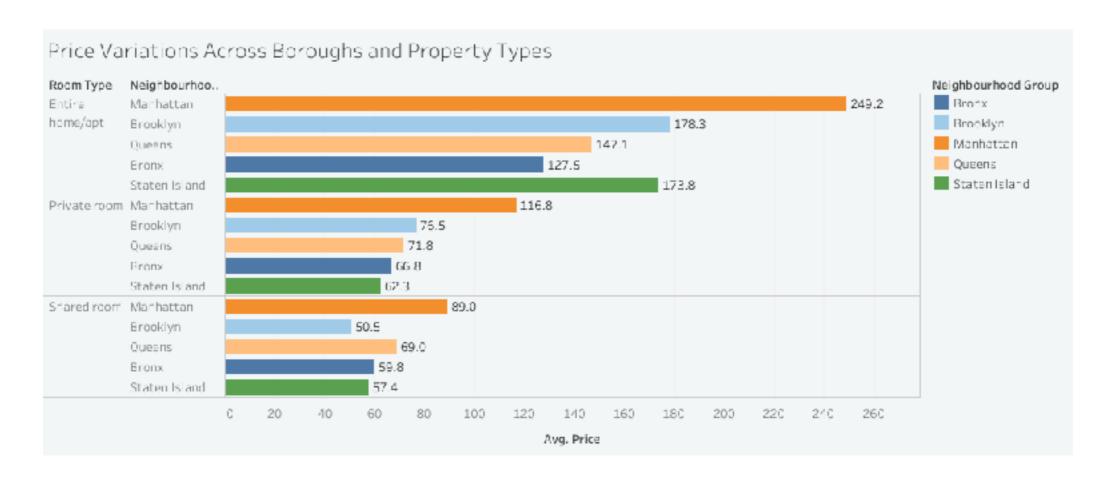


 5) Queens, Bronx and Staten Island remain popular for the categories of Private House and Private Room.

Average Price and Average Monthly Reviews

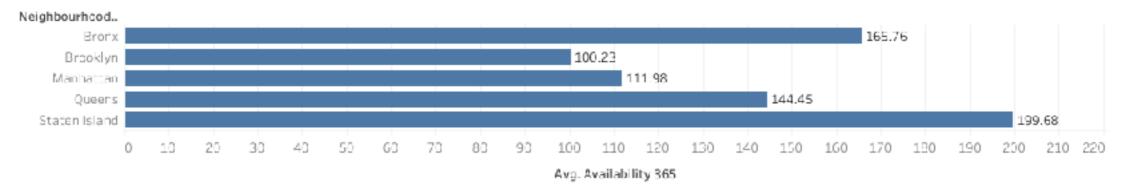


 6) Average price across boroughs also varies with Manhattan topping the charts for every category of accommodation.

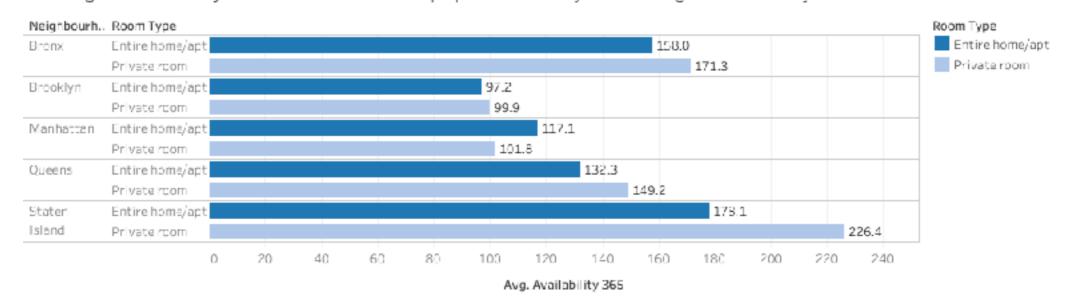


 7) The average availability of rooms across Queens, Bronx and Staten Island also stand out.

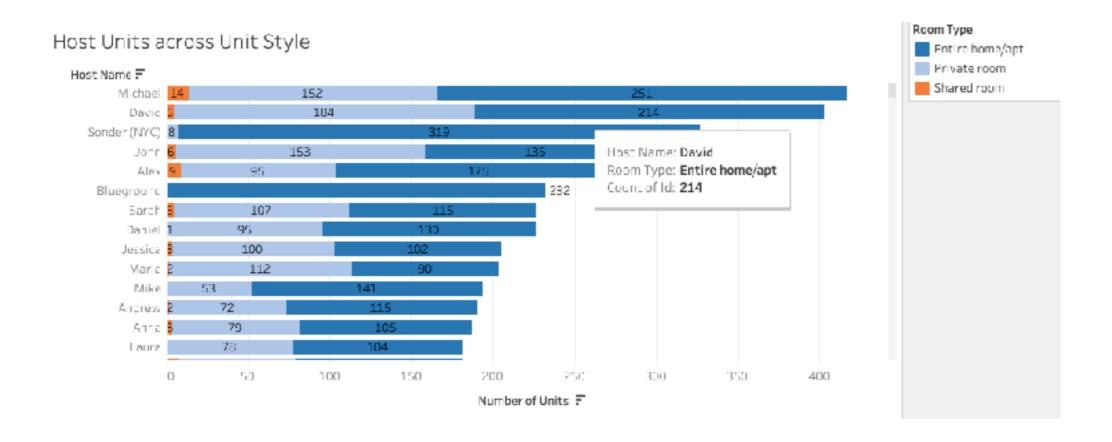
Average Availability



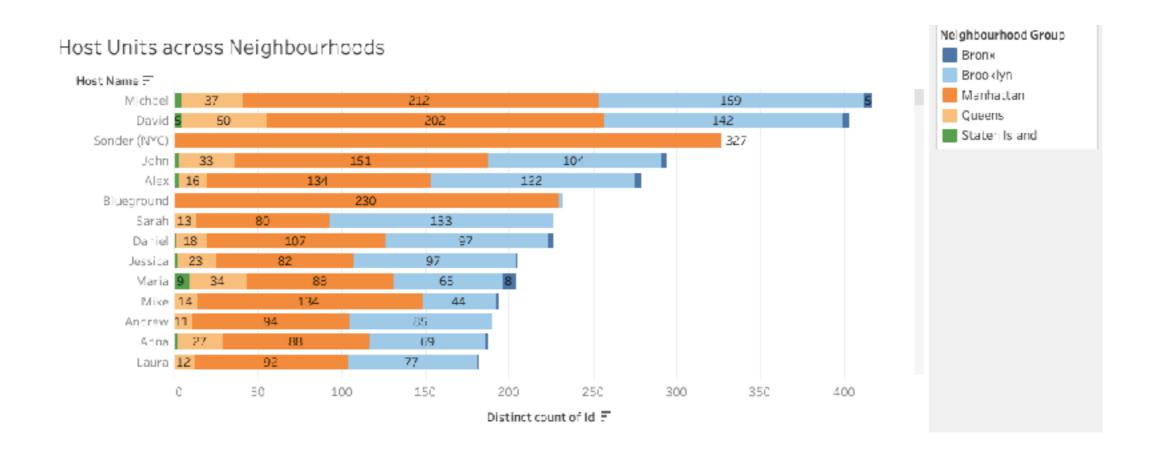
Average Availability across the two most popular unit styles Average Availability



 8) The hosts with the most amount of properties reflect the general trend towards going for Private House or Private Room style units.

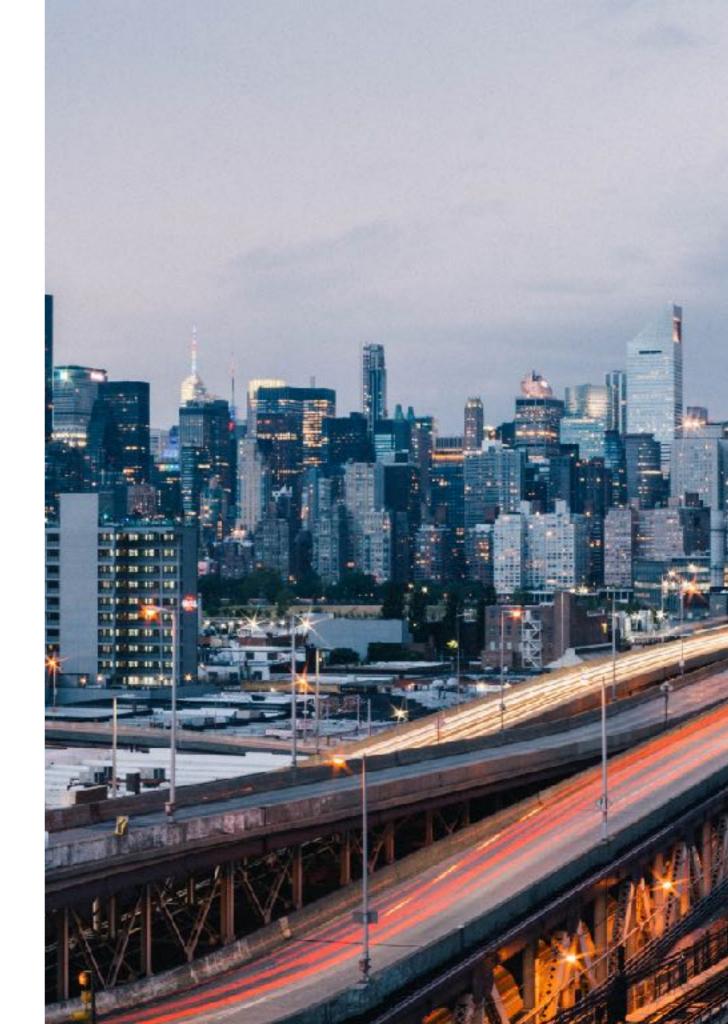


 9) The hosts with the most amount of properties also tend to be concentrated in Manhattan and Brooklyn.
 With none of the top 10 hosts having more than 50 units in Queens or Bronx.



Inferences

- 1) Looking at the current trends of the Airbnb Data and understanding the geography of NY it is clear that we should be looking at Queens or Bronx.
- 2) Although Staten Island also enjoys some popularity with economical prices, its just a bit too far for the business and corporate clients' needs.
- 3) Bronx is the closest borough to Manhattan and the safer areas of Bronx, like Riverdale (15 mins to Mid-Town Manhattan) could make for good potential areas for expansion.



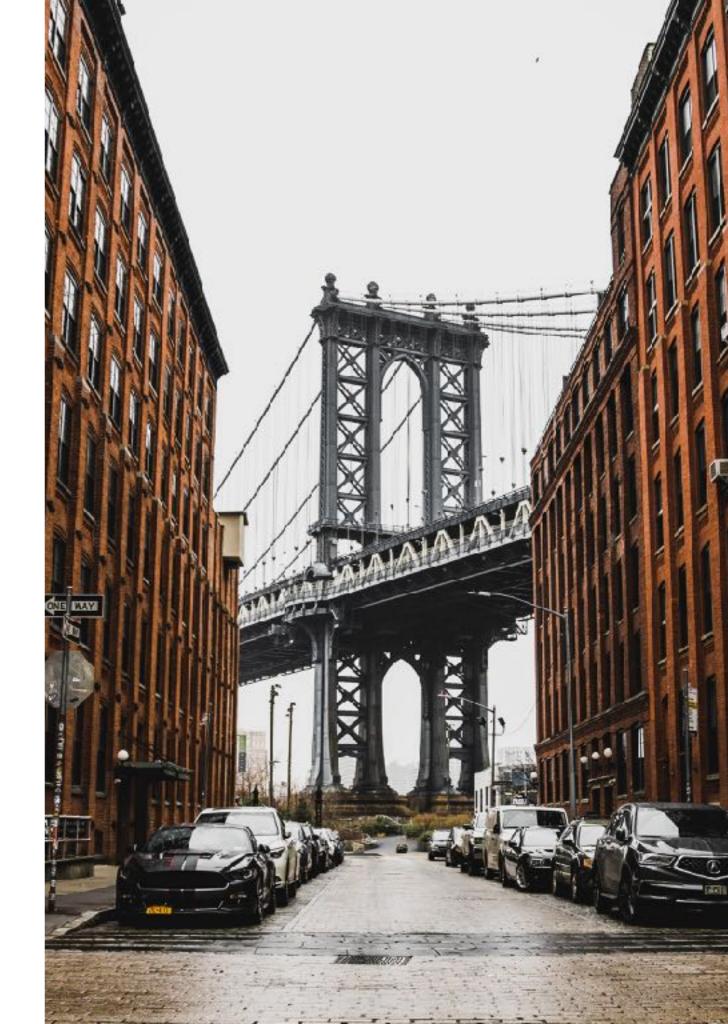
Inferences

- which sits close to Brooklyn, another commercial center, and Manhattan. It is currently underserved but its current properties seem to enjoy strong popularity from tourists and visitors in the city.
- borough we need to do a further analysis for individual neighbourhoods which would be pin pointed using variables or distance, popularity and price.



Inferences

- 6) In Conclusion, Queens and Bronx make for potential underserved areas that could be considered for expansion.
- 7) Private apartments remain the most popular amongst airbnb visitors - these are also economical options across both Queens and Bronx - with average unit prices less than half of a Manhattan property.



Thank You

Prepared by Nivedita Kalla in completion of the Upgrad - Caltech CTME Data Analytics Certificate Program

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