

Capstone Project Submission

Instructions:

- i) Please fill in all the required information.
- ii) Avoid grammatical errors.

Team Member's Name, Email, and Contribution:

Team Name: Data Savvy

Member No.	Name	Email I'd	Contribution
1.	Surabhi Mali	surabhimali1299@gmail.com	Price and review exploration, Data wrangling
2.	Ruchi Yadav	0111ruchiyadav@gmail.com	Introduction and Data Preprocessing, Data cleaning

Please paste the GitHub Repo and Google Drive link.

Github Link:-

<https://github.com/surabhimali/Airbnb-EDA>

Google Drive Link:-

https://drive.google.com/drive/folders/1u768-u5Wo4YiaaoZNwnrJ_4Ds_OXVvLL?usp=share_link

Please write a short summary of your Capstone project and its components. Describe the problem statement, your approaches and your conclusions. (200-400 words)

Airbnb Bookings Analysis

Summary:

Airbnb Bookings Analysis is based on discovering key understandings about hosts, areas, and their traffic. This dataset has around 49,000 observations in it with 16 columns and it is a mix of categorical and numeric values. There are five neighborhood groups Manhattan, Brooklyn, Queens, Bronx, and Staten Island. Brooklyn got most review around 3000 in comparison to Manhattan around 2700, even if the listings for Manhattan is more which is 21661 than Brooklyn is 20104. According to the statistics, it is clear that 75% of the listing's Price ranges from 0–200. But there are also 3 Airbnb with a maximum price of \$10000. Williamsburg has most number of listing count which is '3920'. If someone is booking Entire home/apt, They tend to stay for longer duration on an average 8 to 9 days. For private room on an average of 5 to 6 days. For shared room on an average of 6 to 7 days.

Conclusion:

The given dataset appear to be very rich dataset with a variety of columns that allowed us to do deep exploration on each significant column presented. After cleaning the data we had 48895 rows and 14 columns in the new dataset. There are 3 different types of rooms and 5 different Neighborhood-Groups. We can conclude that the highest number of listing i.e. 44.3% in Manhattan. To conclude we can say, people, stay in private room for an average of 5 to 6 days and shared rooms on an average of 6 to 7 days. Statistics state that the 75% of the listing's Price ranges from 0–200. But there are also 3 Airbnb with a maximum price of \$10000. Fort Wadsworth is the most expensive in terms of neighborhood with 0 number of reviews on an average. Whereas Bull's head locality is the least expensive to stay with 15 number of reviews on an average. We can see this neighborhood (Fort Wadsworth, Woodrow) are one of the highest stay based on price the reason that the price is high in this neighborhood is due to the less number of listings. Brooklyn got most review around 3000 in comparison to Manhattan around 2700, even if the listings for Manhattan is more which is 21661 than Brooklyn is 20104. Staten Island which is cheaper has less review than the other neighborhood group also less number of listings. From this we can say that if we have more listings in neighborhood groups, the tourists can have more options to try which will leads to more number of reviews after visiting the place. Michael has received most number of reviews after David.

