

Capstone Project Submission

Instructions:

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

Team Member's Name, Email and Contribution:

1. **Aniket Suresh Satpute**

Email-id: - aniketsatpute000@gmail.com

❖ **Contribution-**

- Checking the Null values for cleaning the Dataset for further analysis.
- Exploration of Neighborhood group and Map of Neighborhood group
- Exploration of Availability of Room and Room Types and Neighborhood Group
- what can we learn about different hosts and areas?
- Hosts having highest number of properties listed
- Exploration of Number of Review and Correlation between the variables using Heat map.
- Which hosts are the busiest and why?

2. **Kaiwalya Dashrath Zankar**

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❖ **Contribution –**

- ❖ Checking the unique values for analyzing the dataset for further analysis
- ❖ Checking the counts of variables for some columns
- ❖ Exploration of neighborhood variable and room type
- ❖ Relationship between neighborhood group and availability of room
- ❖ Room type with location and correlation between variables.
- ❖ Top 10 variables for room type with location
- ❖ Is there any noticeable difference of traffic among different areas

Please paste the GitHub Repo link-

GitHub Link: - [Aniket-Satpute/Airbnb-Booking-Analysis \(github.com\)](https://github.com/Aniket-Satpute/Airbnb-Booking-Analysis)

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 is an American company that facilitates an online marketplace for lodging, primarily homestays for vacation rentals, and tourism activities. It basically connecting travelers with local hosts who want to rent out their homes with people who are looking for accommodations in that locality. On the other hand, this platform enables host to list their available space and earn extra income in the form of rent and it also enables travelers to book unique homestays from local hosts, saving them money and giving them a chance to interact with locals.

In this project, we are analyzing the various aspects with different use cases which covers many aspects of Airbnb listings. It helps in not only understanding the meaningful relationships between attributes but it also allows us to do our own research and come-up with our findings. The objective of the project is to perform an exploratory data analysis, data pre-processing, data cleaning & imputation and at the end, apply different Data Visualization techniques to get the meaningful insight from the given data.

From the given Dataset, there are 3 unique room type and 5 neighborhood group ranking followed by Entire Apartment > Private Room > Shared Room and for neighborhood group ranking followed Manhattan at the top and Staten Island at bottom Neighborhood.

Sonder (NYC) has the highest number of properties in given data.

Williamsburg has the highest properties of Brooklyn neighborhood group and also Brooklyn has a greater number of Private Rooms unlike Manhattan has entire apartment.

Also, the price of Manhattan is most expensive unlike shared room is least expensive one.

From the analysis we can say that people are preferring entire home/apt over private which are present in Manhattan, Brooklyn, Queens and people preferring listing which are less in price.

In this analysis project, about sixteen different use cases are analyzed for the given dataset make better business decisions and help analyze customer trends and satisfaction, which can lead to new and better products and services. It has been found that Most of the Bookings were takes place from the Manhattan followed by Brooklyn, queens, Bronx and Staten Island respectively.

Drive Link:- [airbnb booking analysis - Google Drive](#)