

SUMMARY

Airbnb Bookings Analysis

Roles



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graph TD; Roles([Roles]) --> Mujtaba[Mujtaba Ali]; Roles --> Samrat[Samrat Chaudhary];
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Mujtaba Ali

- ✓ Data Wrangling
- ✓ Data Manipulation
- ✓ Data Summarization
- ✓ Data Presentation

Samrat Chaudhary

- ✓ Data Handling
- ✓ Data Presentation
- ✓ Data Visualization
- ✓ Data Exploration



Data science can be summarized into five steps: capture, maintain the process, analyze, and communicate. The analysis of Air BNB applications aided to build more reliable and interactive applications. This would be very useful for app Developers to build an application focused on certain discussed categories in this analysis. This analysis will help in Building the application with precise and accurate objectives.

About data

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- Approx 21% of last_reviews are null Approx and 21% of reviews_per_month are null.
- As we can see in the data column 'last_review & reviews_per_month' having a large number of null values.
- As we can see here in "Price column" the minimum price is '0' that looks strange.
- And in "availability_365" 25% of data is '0' that seems awkward let's check the Accurate data in "availability_365" having '0' availability.
- There is approx. 36% of 'availability_365' data is '0' is bit shocking if you have a business providing stays on Airbnb and the availability is '0' days that is an extreme case and Extreme cases are shocking when it comes 36%.
- Let's check by 'last_review' either that house are still Open or Closed.
- The dataset is of the period of '2011-19' and we can see in the 'last_review' table there is some review which was delivered in '2016, 2017' which show either that listings are Already closed or not preferable.
- Now let's fill the price table on behalf of mean price of same 'room_type'

In the initial phase, we focused more on the problem statements and data cleaning, in order to ensure that we give them the best results out of our analysis. Our primary challenge was data cleaning. In Data Cleaning, we have performed a few steps to ensure the data quality such as removing NAN values, replacing and dropping values, etc.



With the cleaned data, we have performed Exploratory Data Analysis to understand our dataset like Highest number of apartments owned by host, Room_type distribution over the location, and Price distribution of room type and so on.

There are many apartments having availability as 0, which means they might stopped their business, we can find the Relation of neighbourhood with these apartments if we dig deeply, various micro trends could be unearthed, which we are not able to cover during this short duration efficiently. There are various columns which can play an important role in further analysis such as number of reviews and reviews per month finding its relation with other factors or other grouped factors can play an important role.



Github and Google Drive Links



Link:- <https://github.com/mujtwa/Air-BNB-Data-Analysis>



Link:- <https://drive.google.com/drive/folders/1FbgezAnz4mg9ngCXS5jfww6Xl3ABZTkd?usp=sharing>