

Summary

- Airbnb is an American company operating an online marketplace for short- and long-term homestays and experiences. The company acts as a broker and charges a commission from each booking. The company was founded in 2008.
- With millions of listings on its platform, Airbnb generates a vast amount of data that can be used to gain insights into the behavior and performance of hosts and guests. Guests and hosts have used Airbnb to expand on traveling possibilities and present a more unique, personalized way of experiencing the world.
- This project aims to explore and analyze a dataset of approximately 49,000 Airbnb listings with 16 columns. The dataset includes both categorical and numeric variables.
- We imported the necessary python libraries pandas, numpy, seaborn, matplotlib, etc. We performed dataset loading, data exploration, and data cleaning.
- In the data exploration process, we identified the characteristics of the data such as the data types, missing values, and distributions of values.
- The data cleaning process involved identifying and addressing any issues or inconsistencies in the data, such as errors, missing values, or duplicate records and removing outliers.
- Through this process, we were able to identify and fix any issues with the data, and ensure that it was ready for further analysis. This is an important step in any data analysis project, as it allows us to work with high-quality data and avoid any potential biases or errors that could affect the results. The cleaned and prepared data can now be used for data visualization.
- Once the data has been cleaned and prepared, we created different visualizations to understand patterns in Airbnb data. Through this process, we were able to uncover trends and relationships in the data that would have been difficult to identify through raw data alone.
- The observations and insights we identified through this process will be useful for future analysis and decision-making related to Airbnb.