**Project Title:** EDA On Airbnb Bookings Analysis.

**EDA :**

* Exploratory Data Analysis is used to analyze and investigate data sets and summarize the data.
* It uses both analytical and visualization tools like plots to analyze.
* It helps determine patterns, spot anomalies, test a hypothesis, or check assumptions.

**Data Description:**

* Data analysis on millions of listings provided through Airbnb is a crucial factor for the company.
* This dataset has around 48,895 observations in it with 16 columns and it is a mix between categorical and numeric values.
* In columns like name, host\_name, last\_review, reviews\_per\_month have some null values.

**Data Processing:**

* Removing Duplicates
* Detecting Null Values
* Outlier Detection

**Data Exploration and Visualization:**

* **On column host\_name:**

Michael, David, Alex, John and Kevin have mostly visited Manhattan and Brooklyn.

Jessica has mostly visited Brooklyn as compared to Manhattan with Queens, Staten Island and Bronx in decreasing order.

* **Room Type**

Top spenders preferred mostly Entire home/apt and Private room

* **Grouping count of different rooms in different neighborhood group**
* **Revenue Generated by Various Groups**
* **Nights Spent**

Manhattan has highest average cost, maximum rooms & maximum revenue followed by Brooklyn.

* **Top 10 Bookings from Manhattan & Brooklyn**

One destination (Williamsburg) had 8.02 % bookings

* **Most Frequently Booked Neighbourhood**
* **Price Density Distribution**
* **Price V/S Nights and Average Price**

**Conclusion:**

* Sonder(NYC), Blueground, Michael and David are top 4 most spending customers. Their popular destinations are mainly Manhattan and Brooklyn.
* Top spenders prefer Private rooms or Entire apartments to stay. So, it’s may be a tourist place cum business hub.
* Manhattan had generated maximum revenue i.e., 4,263,189 $ and Williamsburg in Brooklyn is the most preferred destination with 3,919 bookings.
* Entire Homes/Apt had generated maximum revenue and had average price of 200$.