Capstone Project Submission

Instructions:

i) Please fill in all the required information.

ii) Avoid grammatical errors.

Team Member's Name, Email and Contribution:
Name : Karan Tiwari **Email : karantiwari307@gmail.com** **Contribution:** **Colab notebook** **Project summary** **Technical documentation** **Project presentation** **Presentation video**
Please paste the GitHub Repo link.
Github Link:- https://github.com/Karantiwari307/Airbnb-Exploratory-Data-Analysis.git
Please write a short summary of your Capstone project and its components. Describe the problem statement, your approaches and your conclusions. (200-400 words)

An American firm called Airbnb , runs an online marketplace for travel-related services and accommodations, especially home stays for holiday rentals. A single dataset in the CSV format having 48895 rows and 16 columns, it has been given to us for the Airbnbs in New York City.

I performed Exploratory Data Analysis (EDA) on the raw dataset, for that first I load the important libraries that generally used for Data Analysis. I got insight into the data and discovered the number of outliers and null values in my dataset. I deleted all the rows which were having the null values and swapped the outliers with the 95 percentile quantile value.

After cleaning the dataset, I proceeded to plot the data into multiple graphs using matplotlib and seaborn libraries, while taking various parameters into consideration using matplotlib and seaborn, I gained much better understanding of the dataset , as a result now I know where is the most activity. Now that I've seen the presentation, I am aware of the busiest or most costly neighborhoods, the host's popularity, and many other information. I was allowed to make a number of deductions, including my chosen range and hotel type.

For example for cheaper stays it is recommended to not travel to Bronx in the month of April and Queens in the month of October.