**Capstone Project Submission**

**Instructions:**

i) Please fill in all the required information.

ii) Avoid grammatical errors.

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| **Team Member’s Name, Email and Contribution:** |
| **Contributor Roles:**  **1.Biswajit Paul (**[**biswajit555.bp@gmail.com**](mailto:biswajit555.bp@gmail.com)**)**   * **Data Processing** * **Data Wrangling** * **Data Cleaning** * **Removing total null values in the data set.** * **Heatmap for null values.** * **EDA - data wise analysis** * **Bar graph to check which host is with the most listings in NYC** * **Pie chart to show the percentage of reviews in neighborhood groups.**   **2.Shreya Pattanayak(**[**tutun.15100@gmail.com**](mailto:tutun.15100@gmail.com)**)**   * **Data wrangling** * **Checking missing values** * **Data analysis** * **Scatter plot to check price vs number of reviews** * **Bar graph to check which hosts are busiest and why** * **Finding the traffic areas** * **conclusion** |
| **Please paste the GitHub Repo link.** |
| **Github Link :-**  [**https://github.com/BiswajitPaul7/Airbnb-Bookings-Analysis-Capstone-Project**](https://github.com/BiswajitPaul7/Airbnb-Bookings-Analysis-Capstone-Project) |
| **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, Inc. is an American company that operates an online market place for lodging, primarily homestays for vacation rentals, and tourism activities. Based in San Francisco, California, the platform is accessible via website and mobile app. Airbnb does not own any of the listed properties; instead, it profits by receiving commission from each booking. The company was founded in 2008 by Brian Chesky, Nathan Blecharczyk, and Joe Gebbia. Airbnb is a shortened version of its original name, AirBedandBreakfast.com.**  **In March 2009, the name of the company was shortened to Airbnb.com, and the site's content had expanded from air beds and shared spaces to a variety of properties including entire homes and apartments, private rooms, and other properties**  **Airbnb-2019 appeared to be a very rich dataset with a variety of columns that allowed us to do deep data exploration on each significant column presented. First, we have found hosts that take good advantage of the Airbnb platform and provide the most listings; we found that our top host has 327 listings. After that, we proceeded with analyzing boroughs and neighborhood listing densities and what areas were more popular than another. From the entire analysis on airbnb bookings analysis,Our assumptions before analysis went totally different after getting results from the analysis. The whole EDA process gave very fascinating results and insights that will be helpful for business development and expansion, budget allocations and focussing on things people prefer**  **Questions given to analyze the dataset :**  **1.What can we learn about different hosts and areas?**  **2.What can we learn from predictions? (ex: locations, prices, reviews, etc.)**  **3.Which hosts are the busiest and why?**  **4.Is there any noticeable difference of traffic among different areas and what could be the reason for it?**  **After analyze the dataset as per the given questions we find out the answers:**  **1. Manhattan has the most number of listings, followed by Brooklyn and Queens. Staten Island has the least number of listings.**  **2. Manhattan and Brooklyn make up for 87% of listings available in NYC.**  **3. Brooklyn and Manhattan are the most liked neighborhood groups by people.**  **4. Queens has significantly less host listings than Manhattan. So, we should take enough steps to encourage host listings in Queens.**  **The maximum demand is for private rooms and the entire home/apartment. People are more interested in cheaper rentals.** |