**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:** |

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| 1. **Praful M. Gedam**   Email:- [Prafulgedam12@gmail.com](mailto:Prafulgedam12@gmail.com)   * Data exploration * Finding null & missing value * Data cleaning * Correlation matrix * EDA * Technical document  1. **Megha Dethe**   Email:- [dethemegha01@gmail.com](mailto:dethemegha01@gmail.com)     * Data summarizing * Data classification * Data visualization * Data analysis * Outlier * Preferred and its type * Booking agents * Observation * Conclusion * ppt |
| **Please paste the GitHub Repo link.** |
| Github Link:- <https://github.com/Link/to/Repo> |
| **Please write a short summary of your Capstone project and its components. Describe the problem statement, your approaches and your conclusions. (200-400 words)** |
| **Problem statement:-**  Have you ever wondered when the best time of year to book a hotel room is? Or the optimal length of stay in order to get the best daily rate? What if you wanted to predict whether or not a hotel was likely to receive a disproportionately high number of special requests? This hotel booking dataset can help you explore those questions  **Approaches:-**  This data set content booking information of city hotel and resort hotel and include information such as booking was made, length of stay, the number of stay, the number of adults children and /or babies, and the number of available parking spaces, among other thing. All personally identifying information has from the data  We will perform exploratory data analysis with python to get insight from the data  **Conclusions:-**   * Agents no.9 makes most of the booking * 27.5% of people canceled their booking. we have to find out there reasons why these people canceled there booking, and one thing also can be done to take feedback from them when they cancel their booking * Almost 82% of booking were not change by guest are coming from Portugal, i.e., more than 25,000 guest are from Portugal * July and august month had the most booking. Summer vacation can be the reason of booking * Repeated guest is very few which only 3.9% in order to retain the guest, management should take feedback from guest are try to improve the services. * City hotel has the highest ADR. This means city hotel are generating more revenue than the resort hotel. More the ADR, more is the revenue * Not repeated guest are more likely to cancel their booking * Direct and online TA are contributing the most in both type hotel * Aviation segment should be focused on increasing booking of ‘city hotel’ |