**Capstone Project Submission**

**Instructions:**

i) Please fill in all the required information.

ii) Avoid grammatical errors.

|  |
| --- |
| **Team Member’s Name, Email and Contribution:** |
| 1. Susovan Patra(susovanpatra061@gmail.com)   I contributed the followings on the HOTEL BOOKING ANALYSIS   * Data cleaning * Checking for null and duplicate values * Removed outliers. * Analyzed Distribution of Booking(Total, Confirmed, Canceled) * Analyzed number of special requests * Analyzed arrival period and duration of stay * Analyzed ADR(average daily rate) * Analyzed countries of origin |
| **Please paste the GitHub Repo link.** |
| Susovan’s Github link :- <https://github.com/SUSOVAN-061/EDA-HOTEL-BOOKING> |
| **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: -**  **We have a Data set for Resort Hotel and City hotel which has information includes per night stay, Agents, types of booking, Repeated guest, Country where it is located, Group of Members staying, Meal provided to guest, Distribution channel, ADR, Customer types, Cancelation, Numbers of days in waiting list, Reservation status, Required car parking Spaces, Assigned room Type, Previous cancelation and many others. On behalf of these information we are suppose to analyze following points.  What is the best time of year to book the hotel room?  What is the optimal length of stay to get the best ADR(Average Daily Rate)?  What if you wanted to predict whether or not a hotel was likely to receive a disproportionately high number of special requests?**  **Approach :-**   * Analyzed Distribution of Booking(Total, Confirmed, Canceled) * Analyzed number of special requests * Analyzed arrival period and duration of stay * Analyzed ADR(average daily rate) * Analyzed countries of origin * Compared between lead time and cancellation rate |
| **Conclusions :-**   * The majority of guests come from western europian countries. * Majority of the hotels booked are city hotel. * The number of repeated guests is too low. * City hotel has highest percentage of cancellation rate. * We also realize that the high rate of cancellations can be due high no deposit policies. * The month of January and February has less waiting time compared to other months. * Both the hotels have high percentage of special request but the City hotel likely to receive a high number of special requests as its percentage of special requests is 71. * The optimal length of stay in order to get the best daily rate varies as the number of adults varies * we do not have repeated guests, we should target our advertisement on guests to increase returning guests. |