**Capstone Project Submission**

**Instructions:**

i) Please fill in all the required information.

ii) Avoid grammatical errors.

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| This data set contains booking information for a city hotel and a resort hotel, and includes information such as when the booking was made, length of stay, the number of adults, children, and/or babies, and the number of available parking spaces, among other things. All personally identifying information has been removed from the data.  First we understand the data where we check total number of rows & columns, data types, column information & checking for null values. Then filling those null values with ‘0’ & ‘other’ and dropping unnecessary column from data set. Then we started doing EDA where we found  City hotel is most preferred hotel than Resort hotel by the guests so Resort hotel needs to work more on their marketing strategy.  The majority of guests come from western Europe countries.  The hotel Reservation tends to peak during July and august.  Most of the bookings happened in 2016.  The majority of reservations are for city hotels.  The number of repeated guests is too low.  Very few guest require car parking space.  Avg ADR is high for city hotels, These city hotels earn more revenue than the resort hotels.  City hotel has the longer waiting period than the resort hotel.  Online TA(travel agent) is the most effective market segment for hotel booking.  GDS is more effective distribution channel in city hotel for increasing their income.  We divided the whole project into two parts.  **Contributor rule**:   * **Priya Bodke**:  1. Data understanding 2. Data cleaning & Manipulation 3. Dropping the unnecessary column and filling null values with 0 and other 4. Preferred hotel and cancellation rate 5. Months which has most bookings 6. Countries from which most guest are coming 7. Distribution channel used for hotel bookings 8. Hotel type with highest ADR 9. Market segment with highest cancellation rate 10. Hotel type which has longer waiting time 11. ADR across different months 12. Effective distribution channels for increasing income  * Awaze Mohammad:  1. Data wrangling 2. Filling null values 3. Hotel type 4. Hotel type and reservation cancellation 5. Highest year of bookings 6. Percentage of repeated guests 7. Car parking requirements 8. Market segment 9. Most preferred meal(food) 10. Months which has the highest bookings 11. Preferred room type |
| **Please paste the GitHub Repo link.** |
| Github Link : https://github.com/priyabodke41/Hotel-booking-analysis |
| **Please write a short summary of your Capstone project and its components. Describe the problem statement, your approaches and your conclusions. (200-400 words)** |
| **Colab link :- https://drive.google.com/drive/folders/1sTDts-Z-pQ15geObTLf0aGnoyg0phNoA?usp=sharing** |