**Capstone Project Submission**

**Instructions:**

i) Please fill in all the required information.

ii) Avoid grammatical errors.

| **Team Member’s Name, Email and Contribution:** |
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| 1. **ANAS MUSTAFA:**   **Email:** [**Mustafaanas84464@gmail.com**](mailto:Mustafaanas84464@gmail.com)  **Contribution:**   * **Data Wrangling** * **Hotel Booking**   **■Resort Hotel ■City Hotel**   * **Booking canceled** * **Special requests** * **Total booking**   **■Resort Hotel ■City Hotel**   * **Booking per year** * **Booking month wise** * **Guests Country** * **Meal**  1. **SARTHAK RASTOGI:**   **Email:** [**sartakrastogi1@gmail.com**](mailto:sartakrastogi1@gmail.com)  **Contribution:**   * **Data cleaning** * **Average stays Weekends** * **Average stays Weekdays** * **Interest of people over the years** * **Meal type** * **Market Segments** * **Special Requests**  1. **CHETAN RAJPUT:**   **Email:** [**Chetan.rajput91@yahoo.com**](mailto:Chetan.rajput91@yahoo.com)  **Contribution:**   * **Analysis on Hotel Type and the booking.** * **Busiest month for the Hotels.** * **Number of Customer in various month** * **Room type and the accommodation.** * **Reservation Status.**  1. **SWASTIK KASHYAP:**   **Email: swastikkashyap23@gmail.com**  **Contribution:**   * **Data Analysis** * **Online vs Offline Booking** * **Satisfactory of Customers** * **Making of PPT for the project presentation** * **Data filtering** * **Prepare the Documentation for the project**  1. **VARUN KAVIN:**   **Email :**[**Varunkavin5@gmail.com**](mailto:Varunkavin5@gmail.com)  **Contribution:**   * **Data cleaning** * **Special requests** * **Total booking** * **■Resort Hotel ■City Hotel** * **Data filtering** * **Reservation Status** |
| **Please paste the GitHub Repo link.** |
| Github Link:- https://github.com/Anas84464/HOTEL-BOOKING-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)**  **We had completed our capstone project on Hotel Booking Analysis. Hotel Booking is one of the major parts during any season whether it is summer, winter or rainy. But here we are trying to predict the possibility of a booking for a Hotel based on different factors and features like our Data Sets contain. We were provided the data set containing booking information for a city hotel or resort hotel and includes information such as when the booking was made, length of stay, reserved room type, assigned room type, total special request made by customer, Country, Number of booking canceled, Arrival date and year, the number of adults, children and babies and some other information were also given.**  **Problem Statements:-**  **How many people with previous cancelation and previous bookings not completed having made a special request, How many people prefer room type a b c d, Country vs arrival date, Number of customers repeated their bookings, Number of online bookings vs direct. If online booking what is the possibility of not canceling booking, How Many Booking Were Cancelled, What is the booking ratio between Resort Hotel and City Hotel, What is the percentage of booking for each year, Which is the busiest month for hotels, From which country most guests come, How Long People Stay in the hotel, Which was the most booked accommodation type (Single,Couple, Family), Assigned room vs Booked room.**  **Our Approach & Insights from the data:-**  **First we import all the necessary libraries and mount the data set on the Colab then we try to find out null values we delete and replace all the null values. Then we did data exploration and data analysis. From visualizations, we have performed data analysis at every level of the dataset to draw out key insights about the industry. we get to know after doing analysis. Huge proportion of hotels were city hotels. Resort hotels tend to be on the expensive side and most people will just stick with city hotels. Also, resort hotels tend to be appropriate for larger groups of people. During the year we have 37% of cancelations. As we can see here among all one special booking request, almost 27% of total bookings were made. Two special requests were made nearly 10% among all and 3 special requests was nearly 2%. There have been more arrivals in the year 2016 than the remaining years. We can also say that there has been an increase in the arrivals as years pass. Most people’s choice destination country was Portugal, the UK, France, Spain and Germany. People generally prefer long stays on weekdays rather than weekends and most booking was done in the summer season (July-August). Majority of the customers book through online rather than offline booking. Most of the rooms booked are couple rooms. Majority of the customers have got the room type they have booked, which means customers are satisfied.** |