**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:** |
| Sudhanshu Chouhan  Email - [Sudhanshurocks1998@gmail.com](mailto:Sudhanshurocks1998@gmail.com)  Contibution :  1.Data Wrangling   * Hotel Booking datset. * Null values of variables children,country. * Removed duplicates values in Variables   2.Month wise booking  3.Analysis on the basis of distribution channel.  4.Distribution Channel vs mean Lead Time.  5.ADR generated through various distribution channel.  6.Analyzing the variation of all numerical data of sata set.  7.Power Point Presentation  Kapil Narayan Singh  Email – [kapilalmabetter@gmail.com](mailto:kapilalmabetter@gmail.com)  Contibution :  1.Data Wrangling   * Hotel booking Dataset * Null values of variables company, agent.   2.Top countries from where most people visited  3.Number of days people stay in the hotels  4.Special request made by adults.  5. Chances customer will return  6.Analyzing the variation of all numerical data of data set.  Nimisha Nooti  Email - [nootinimisha@gmail.com](mailto:nootinimisha@gmail.com)  Contibution :  1.Data Wrangling   * Hotel Booking dataset. * Null Values of variables .   2.Types of booking and their bookings.  3.Booking cancellation info.  4.Hotel bokking based on the meals.  5.The room types bookings.  6.Possibilities of getting Reserved room types.  7.Nuber of days people stay in the hotel. |
| **Please paste the GitHub Repo link.** |
| Github Link:- <https://github.com/itsmesudhanshu/1-module-EDA-capstone>-  kindly put "-" at the end of link to open it. |
| **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**  Hotel Industry is the backbone of tourism sector. Revenue of the hotel industry depend upon multiple factors.​Some of these factors are like types of hotels that include city hotels and resort hotels, information about cancellation of bookings, from which country most bookings have been done, which type of mode of transaction has been taken for booking etc.​  This analysis will help us to target the important area and generating more revenue for the hotel industry.    **Insights**  •Data has 31994 duplicate values.  •From the analysis we can say that 66.4% of City Hotels and 33.5% of Resort Hotels were booked.  •Analysis shows that the max bookings and cancelations are happening in a city hotel.  •78% of Hotel Bookings are happening on 'BB' meal type i.e., ' BB: Bed & Breakfast '​  •Most of the city and resort bookings are happening in the month of **August**  •Most of the hotel bookings are from  **"PTR(Portugal)"** country and vice versa.  ​  •Most demanded room types are A next comes D and the least bookings are done for room types P and L.​  •Maximum bookings are done in 47th week of year 2015.  •The maximum lead time taken in bookings are in the year 2016.  •Analysis shows that the majority of people stay or do a booking of 7 or less than 7 days.  •Through TA/TO distribution channels, bookings were with high lead time i.e., they are booking early compare to other distribution channels.  •As ADR is the revenue-determining factor 'GDS distribution channel' of city hotel bookings is achieving high ADR(revenue).  •From the above analysis we can notice that the Resort hotels are getting  the highest revenue in the month of 'august' and 'July' and then decreases drastically. City hotel's revenue is almost constant all over the year.  •There is very less probability that the customer will repeat.  •We can come to the conclusion that special requirements are subjective to individual requirements. |