**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:** |
| 1. Aditya Tadas ([adityatadas8075@gmail.com](mailto:adityatadas8075@gmailcom)): 2. Data Wrangling : 3. hotel 4. is canceled 5. arrival date year 6. arrival date month 7. Percentage of bookings done in different hotels. 8. Total bookings done in different Years. 9. Total bookings done in different months. 10. Total Number of Bookings Cancelled in different months. 11. Total Number of Non-Cancelled Bookings in different months. 12. Stays in weekend nights 13. Stays in week nights 14. meal 15. reserved room type 16. No of days customers prefer to stay in week night. 17. No of days customers prefer to stay in weekend night. 18. Most preferred meal type by customers. 19. No of customers making special Request. 20. Most preferred room type.     2)Aishwarya Methe (aishwaryamethe252@gmail.com)   1. Data Wrangling : 2. Country 3. deposit\_type 4. market\_segment 5. agent 6. Top 20 countries. 7. Deposit Type most customer choose. 8. Booking Cancellations from Market Segment. 9. Non Cancelled bookings from Market Segment. 10. Agent(id) booking the most number of hotels. 11. Adr 12. is\_repeated\_guest 13. lead\_time 14. Room type with high average price. 15. Month-wise revenue. 16. Optimal length to stay. 17. No of repeated guests. 18. Correlation between features. |
| **Please paste the GitHub Repo link.** |
| Github Link: https://github.com/Methe11/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)**  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 from the data.  For this project we are doing analysis on Hotel bookings data from 2015 to 2017.  It 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.  Our main aim is to find out which important factors influences Citi and Resort hotel for bookings, cancellation and other parameters. For this we will explore and visualise the data to discover important factors that the bookings using exploratory data analysis.  Here We will find out the percentage of booking done in different hotels, total bookings done in different Years, Total Number of Booking Cancelled in different months, room types and market segment .  Firstly we have understand our data to finding some meaningful insights after that we have seen that there are some numerical variables and categorical variable present in our data firstly we have handling the missing values that are contains in our that after that we have dropped the duplicates values to done exploratory data analysis preciously now we have extracted some features called total people and length of stay in order to understand data in better manner.  After that we have done some Uni variant analysis to conclude preference of our clients , which hotel was mostly preferred by customer , how many repeated guest have booked hotel , what is the requirement of car parking of customers.  Then with the use of count plot we have analyze how many booking are made according to year also according to month , also seen that how many booking are cancelled , percentage of booking cancelled ,  Also we have visualize that which are the most preferred market segment and distribution channel are used to book hotel what are the benefits of booking hotel by using these distribution channel and market segment.  Now , We have done some outlier treatment in the column called adr after that we have done some bi varient analysis to visualize in which year adr of hotel is higher also in which year it is lower and higher , also we have done some analysis on in which period and in which condition hotel well received more number of special request also we have visualize that in which month resort hotel generate more revenue than city hotel.  And finally we have find out the correlation of all variables with each other. |
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