**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:** |
| **Name Email Contribution**  Suraj Kumar [surajkumar0892@gmail.com](mailto:surajkumar0892@gmail.com) All project done by my-self |
| **Please paste the GitHub Repo link.** |
| **Github Link**:- [surajkumar089/EDA\_Capstone\_Project\_Hotel\_Booking\_Analysis (github.com)](https://github.com/surajkumar089/EDA_Capstone_Project_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)** |
| The data collection includes information on when the reservation was made, how many nights they stayed, the numbers of adults, kids or babies and the number of parking spaces, among other things, for both a city hotel and a resort hotel.  For both hotels, the same information was gathered: 79,330 observations for the resort, each described by 32 variables. The dataset contains 119,390 hotel reservations, including those that were cancelled. Because these are the actual facts, any factors that could identify hotels or clients have been removed.  As a first step, perform data wrangling on the raw data. Data cleaning eliminated any false information that would have affected the results of the data set. While cleaning the data, we removed duplicates values & columns took care of lost values, switched columns to the proper data type, and added critical columns.  For various forms of analysis, we used the Seaborn and Matplotlib packages to define data in graph formats such as scatterplots, barplots, boxplots, countplots, pycharts, and seaborn.  In general, I discovered that significant holidays and the summertime tend to be the busiest times for hotel reservations. I also found that customers who book early tend to stay longer and pay more than those who book closer to their travel dates. These findings lead me to suggest that hotels should provide discounts for early reservations in order to promote longer stays. |