**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** | | **Shabana Ali** | [Shabanaali0811@gmail.com](mailto:Shabanaali0811@gmail.com) | All Project work done my self. | |
| **Please paste the GitHub Repo link.** |
| **Github Link:** https://github.com/Shabana0811/EDA\_Capston\_Project\_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)** |
| The data set contains booking data for city hotel and a resort hotel and includes data such as when the booking was made, length of stay, the number of adults, children or babies and the number of available parking spaces, among other things.  To begin with of all I am going attempt to get it the meaning of all columns of the data outline. For this I am going see the one of a kind values achieved by each column whose meaning I am unable to understand.  Cleaning data it removed the ambiguous data that can affected the result of data set. Where as cleaned the information we expelled copy columns taken care of lost values changed over columns to appropriated data sorts, included critical columns.  Information set..can too be utilized to see univariate investigation, Lodging shrewd examination, Conveyance Channel astute examination, Booking cancellation astute examination and time shrewd analysis’  For different types analysis we used Matplotlib, seaborn library for making define data in graph format like scatterplot, barplot, boxplot, countplot, pychart, kdeplot, lineplot and seaborn. seaborn used exploring the correlation between total\_stay and lead\_time and adr and total\_people, other graphs also very uses for analysis worked in this data set.  After all analysis found lots of result for different wise analysis mention some conclusion like Mostly guests stay for less than 7 days in hotel and for longer stays Resort hotel is preferred, Most of the guests came from european countries, with most number of guest coming from Portugal, Around 66% bookings are for City hotel and 34% bookings are for Resort hotel, therefore City Hotel is busier than Resort hotel. Also the overall adr of city hotel is slightly higher than Resort hotel, Almost 30% of bookings via Travel Agent/Travel Operator are cancel for customers, generally the longer stays (more than 15 days) can result in better deals in terms of low adr, Bookings made via complementary market segment and adults have on average high no. of special request. |