**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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| **Please paste the GitHub Repo link.** |
| Github Link:- [aravind-dasarapu/EDA\_Hotel\_Bookings (github.com)](https://github.com/aravind-dasarapu/EDA_Hotel_Bookings) |
| **Please write a short summary of your Capstone project and its components. Describe the problem statement, your approaches and your conclusions. (200-400 words)** |
| In this project we have hotel bookings dataset. For EDA we do data cleaning, data wrangling and data visualization, to infer conclusions with respect to bookings and many other aspects that will provide information on the dataset and also get a better understanding of data.  As a first step we explored data and figured out all missing values or Null values. We have 4 missing values in the given dataset. Hence, we manipulated the data which are not so useful for further analysis. And also we handled the outliers using conditionals to clean the data. Once the data was ready we started Data Wrangling and Exploratory Data Analysis. We drew some insights using this data and made some visualizations. |
| We found that a huge number of visitors are from western Europe namely Portugal, France, UK. And city hotels have maximum bookings. And it seems 2016 to be the year where the hotel bookings are highest.  Also we found that the majority of the bookings are done by Travel agencies(Online/Offline) and Tour Operators for both hotel types.  And 77% of the people prefer the BB (bed & breakfast) meal type in both the hotel types.  For resort hotels, the average daily rate is more expensive during August and July. For city hotels, the average daily rate is more expensive from September to June compared to resort hotels.  As the hotels are getting less repeated customers, management should take customer’s feedback and improve the hotel facilities to increase the count of their repeated guests.Majority of people prefer A-room type so hotels should increase their numbers to get more revenue.  We found that Transient bookings are more comparatively from other types of bookings, they represent 75% of the total visitors. City hotels are more prone to cancellations. Hence hotels should provide some offers focusing on transient customers to decrease cancellations. |