**Capstone Project Summary**

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| **Team Member’s Name, Email and Contribution:** |
| Anushree V. Kajavadekar: [anushreekajavdekar78@gmail.com](mailto:anushreekajavdekar78@gmail.com)   1. Data Wrangling  * Dataset Analysis for different countries * Data visualization for busiest year * Analysis for busiest month * Cancellation rates for both hotel types  1. Project Presentation   3. Technical Documentation  Prasanna R Kadlayyanavaramath: [prasannark48@gmail.com](mailto:prasannark48@gmail.com)  1. Data Wrangling:   * + Highest adr recorded using line plot and box plot .   + Correlation analysis   + Comparison with stay in weekend night and weeknights.   + Costliest room type.   + Mode of bookings.   2.Presentation work.  3.Technical document preparation.  Anjali Kasar: [anjalikasar1998@gmail.com](mailto:anjalikasar1998@gmail.com)  1.Data wrangling   * + - Analysis of better choice for large families     - Data visualization: count plot for from which countries has made a greater number of bookings in hotel.   2.presentation work  3.Technical document preparation  Satish Patil: [satishpatil333@gmail.com](mailto:satishpatil333@gmail.com)  1. Data Wrangling   * + - Plot Chart for Meal preference & Market Segment.     - Analysis for Preference of meals.     - Analysis of Preference of meals against Market Segment   2. Project presentation  3. Technical documentation preparation |
| **Please paste the GitHub Repo link.** |
| GitHub Link:-  https://github.com/Prasannark48/CapstoneProject1-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)** |
| Hotel industry is a very volatile industry, and the bookings depend on variety of factors such as type of hotels, seasonality, days of week and many more. This makes analyzing the patterns available in the past data more important to help the hotels plan better.  We had a data set which has 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.  First, we perform data cleaning for the raw data. Asking right question to dataset is always considered as great approach so we asked some very meaningful questions and plotted graphs and other visualization entities to get insights from data and we come with following conclusions:  Customers are mainly from Portugal, the United Kingdom, France, Spain, and other European countries.  In terms of cancellation rate, the cancellation rate of the Resort hotel in is relatively low.  The Online mode of hotel booking is preferred by majority of customers compare to other offline methods like TA/TO. Also, lot of customers bookings done by online TA/TO are preferred 'BB' as a first choice and we can see 'FB' has least choice.  Average ADR of 'City hotels' is less than that of 'Resort hotels'. Most Families preferred Resort hotels compare to city hotels Customers prefer City hotel for longer stays over the Resort hotel.  Using the results from the above analysis, business can make key decisions regarding the customer experience they desire to deliver. |