**Capstone Project Submission**

EDA on Hotel Booking

|  |
| --- |
| **Team Member’s Name, Email and Contribution:** |
| **Team Members: Email**  1). Gaurav Gade - [gauravgade3@gmail.com](mailto:gauravgade3@gmail.com)  2). Hitesh Verma - [hiteshlko1@gmail.com](mailto:hiteshlko1@gmail.com)  3). Anand Gend - [anandgend1919@gmail.com](mailto:andgend1919@gmail.com)  **Contributor Roles:**  **1). Gaurav Gade:**  A). Explored the data  B). Pre-processed the booking wise data  C). Canceled bookings and checked-in customers  D). Number of bookings with percentage  E). Variation in booking across different years with different months.  F). Period having maximum and minimum bookings  **2). Hitesh Verma:**  A). Explored the data  B). Pre-processed the remaining data  C). Types of rooms customer prefer  D). Market segment bookings  E). Meal category which loved by customers  F). Countries with maximum and minimum customers  **3). Anand Gend:**  A). Explored the data  B). Pre-processed the hotel wise data  C). Sorting the data according resort and city hotels  D). Trend of demand of hotels  E). Customer interest to stay in hotels |
| **Please paste the GitHub Repo link.** |
| GitHub Link:- <https://github.com/Hiteshlko1/> |
| **Summary** |
| A hotel is an establishment that provides lodging and, often times, meals and other services for travelers and other paying guests. ... Overall, sales from hotels account for 87.4% of industry revenue and 82.0% of industry employment. That’s why we found “Hotel Booking Analysis” project very interesting.  In this EDA Project, we were provided with a Hotel Booking Analysis Dataset in which have 32 different columns containing relevant information such as hotel types, customer types, segment, meal, rooms and much more.  Firstly, we explored the dataset, preprocessed all the data to make it ready for data wrangling and analysis. After that we framed the whole project into three categories as – Hotel wise; Booking wise; and final part having rooms, customers, meal, segment and countries information.  In booking wise category, we extracted some data about how many bookings got canceled? and how many customers checked-in hotel? the variation in number of bookings across different years we had along with different months. We also estimated the period of maximum and minimum bookings.  In hotel wise category, we analyzed the data according to the types of hotels – Resort hotels and City hotels. In this analysis we found interesting data about trend of demand for both the hotels across different years. Further we proceeded how many nights’ customers preferred to spend in hotels.  In final part, we ended with representation of number of customers with various room types, meal, customer, market segment and countries with maximum customers. We also estimated the best time of year to book a hotel room along with the optimal length of stay in order to get daily best rate. |