

Capstone Project Submission

Instructions:

- i) Please fill in all the required information.
- ii) Avoid grammatical errors.

Team Member's Name, Email and Contribution:

1. Mohammad Jibran

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- 1. Data wrangling**
- 2. Which year hotel businesses were most booked**
- 3. Hotel cancellation**
- 4. Market segment and distribution channel**
- 5. Guest preferences**

2. Siddhi H Thakur

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- 1. Data wrangling.**
- 2. Busiest months for hotels**
- 3. Special request by guest**
- 4. Pre deposit.**
- 5. Booking made by each hotel.**

Github Link:- <https://github.com/DSJibran/Hotel-Booking-EDA-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)

Summary of Hotel Booking EDA Analysis

The Hotel Booking dataset stores booking information for Hotels (city hotel and a resort hotel) and details like when the booking was organized, the number of adults, children, and/or babies, lead time, stays on weekdays or weekends, and the number of available parking spaces, many more.

As the first step, data cleaning and unifying messy and complex raw data sets for easy access and analysis. Required new columns are added, null values are removed, etc. After all the preprocessing, we start Visualizing our dataset by using python libraries Matplotlib and Seaborn.

After research, there are a large number of city hotels than resort hotels. The year 2016, was the year with the most bookings as compared to 2015 and 2017. While August is the busiest month of the whole year. It's important to note that City hotels have more cancellations than Resort hotels. But, the city hotel also has more bookings than the Resort hotel.

Most of the guests come from Portugal, France, the United Kingdom, and Spain.

It seems that the majority of our guests don't require car parking in any type of hotel.

We also found that most bookings are done by online TA and the majority of the bookings do not require any deposit. And major stays appear to be on weekday nights when compared to weekend stays. It can be finally concluded that a city hotel is the better choice for large families.