**Capstone Project Submission**

**Instructions:**

i) Please fill in all the required information.

ii) Avoid grammatical errors.

**Team Member’s Name, Email and Contribution:**

Name –Roshana

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Role-

* Finding out which hotel has higher percentage.
* Which hotel has higher revenue and Lead time.
* Checking which country has the highest number of bookings.
* Finding out the busiest month of the hotel.
* Finding out the most preferable meal.
* Analyzing the countries with highest bookings.
* Which hotel has longer waiting time.
* Finding out which hotel has the highest number of cancellations.
* Distribution Channel wise analysis.
* Time wise analysis

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| **Please paste the GitHub Repo link.** |

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| |  | | --- | | **Please write a short summary of your Capstone project and its components. Describe the problem statement, your approaches and your conclusions. (200-400 words)** |   Github Link:- https://github.com/roshanapatil/Hotel-Booking-Analysis-EDA |

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 very important to help the hotels plan well. Using the historical data,

hotels can perform various campaigns to boost the business.

The data set contains booking information for a city hotel and a resort hotel, and includes

information such as when the booking was made, the number of adults, children, and/or babies,

and the number of available parking spaces, among other things. From it, we can understand

the customer’s’ behavior and it might help us make better decisions.

The process of our analysis will be by the following step: Understanding the Datasets, Data

preparation, Data Cleaning, Define our Business question, analyze the data, and visualize the

data, conclusion.

**We have analyzed some key metrics for hotel bookings like :**

**• The number of cancellations**

**• Most preferred hotel**

**• Busiest month of the hotel**

**• Number of nights stays by guest on weekday vs. weekends**

**• Most affected meal on cancellation of bookings**

**• Highest bookings market segment**

**• Year-wise bookings of the hotel**

**• Booking types (family , couples , single)**

**• Room price vary per night over the year**

**• Hotels available for booking**

In this project, we have analyzed the busiest or most occupied month by customers and

we concluded that August is the busiest month which is having highest number of

bookings and January has least no. of bookings.

We have further analyzed that City

hotel have more no. of cancelled bookings and having highest no. of bookings. Also,

Online TA is the most preferred booking segment.

We have tried using the data available to analyze the factors affecting the hotel bookings.

These factors can be used for reporting the trends and predict the future bookings.