

# Capstone Project Submission

## Instructions:

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

### **Team Member's Name, Email and Contribution:**

#### **Shreedarsh M ([shreedarshm@gmail.com](mailto:shreedarshm@gmail.com)):**

- Data preprocessing and Cleaning
- Null value treatment
- Cancellation rate
- Customer Segmentation
- ADR Analysis
- Top Countries

#### **Ranjith K([ranjith26.ganesh@gmail.com](mailto:ranjith26.ganesh@gmail.com)):**

- Data preprocessing and Cleaning
- Null value treatment
- Number of adults, children
- Number of bookings at different timeline
- Distinguishing Resort and City type Hotels
- Is repeated Guests

#### **Sachin S Panchal([Sachinrockzz559@gmail.com](mailto:Sachinrockzz559@gmail.com)):**

- Data preprocessing and Cleaning
- Null value treatment
- Deposit Policies
- Average Night stay duration
- Market Segments
- Checked-in Guests

#### **Rohan A G ([rohanag2806@gmail.com](mailto:rohanag2806@gmail.com)):**

- Data preprocessing and Cleaning
- Null value treatment
- Cancellation Rate
- Number of Bookings at different years
- City and resort hotels analysis

#### **Kshipra Parihar([kshipraparihar@gmail.com](mailto:kshipraparihar@gmail.com)):**

- Data preprocessing and Cleaning
- Null value treatment
- Car Parking space analysis
- Meals analysis
- ADR Analysis

**Please paste the GitHub Repo link.**

Github Link:- <https://github.com/ShreedarshM/Hotel-Booking-Analysis.git>

**Please write a short summary of your Capstone project and its components. Describe the problem statement, your approaches and your conclusions. (200-400 words)**

The hotel industry is one of the most important components within the service industry, catering for customers who require overnight accommodation. It is closely associated with the travel industry and the hospitality industry, although there are notable differences in scope.

In this EDA Project, we were provided with a Hotel Booking Analysis Dataset in which have 32 different columns containing very useful stuffs such as hotel types, customer types, segment, meal, rooms and much more.

Firstly, we have explored our data set and understand various why-how's in the data set, and then We have preprocessed the data by deleting the null values and replacing with mean for numerical category.

In the second phase of the implementation, we have done the analysis on number of cancellations, cancellation rate, deposit policies, distinguishing resort and city type hotel separately.

Next We have done the Analysis on Number of bookings by various factors such as years, months, day, Number of bookings across different countries, Number of Children, Adults, Number of night stay duration and got the insights of various trends that are followed in the industry.

In the last phase, we have explored different type of market segments, car parking space, meal analysis, Average daily rate, and repeated guests counts.