

# Capstone Project Submission

## Instructions:

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

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

Contributor role :

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1. Data Wrangling -
  - i. Analyze Data set
  - ii. Match data set according to requirement
2. Data cleaning-
  - i. Delete unnecessary data.
  - ii. Fill missing value in data set
3. Basic Observation based on Given data set
4. Data Visualization-
  - i. Plot piechart, boxplot for relative data
5. Conclusion

**Please paste the GitHub Repo link.**

Github Link:- <https://github.com/shubhs777c/Hotel-Booking->

G-Drive link -

[https://colab.research.google.com/drive/1Wb7ZT7pQY\\_ITYNrcIPMPsRfAlgd7IzCN?usp=sharing](https://colab.research.google.com/drive/1Wb7ZT7pQY_ITYNrcIPMPsRfAlgd7IzCN?usp=sharing)

Hotel bookings depend on many factors such as type of hotels, seasonality, days of the week, meals available, parking spaces, charges etc. Hence analysing the patterns available in the past data is very important to help the hotels plan well accordingly in order to benefit the business.

The given 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 etc, we tried to understand the customer's behaviour and usage patterns in the data to help hotel managements improve the business by making better decisions. As first step we analyze data properly by doing data wrangling over raw data.

There are some null value and missing value in data set first need to clean it properly. We performed univariate, Hotel Wise comparison, booking cancellation Analysis, and correlation analysis by plotting some visualizations and data wrangling to find out useful insights and make overall inferences to reach a conclusion properly. we also analysed the factors affecting the hotel bookings which may be useful to predict future bookings, cancellations and the number of special requests.