

# Capstone Project Submission

## Project Summary:

This data article describes two datasets with hotel demand data. One of the of the hotels(H1) is a resort hotel and the other is a city hotel(H2). Both datasets share the same structure, with 31 features describing the 40060 observations of H1 and 79330 observations of H2.

We know that both hotels are located in Portugal(southern Europe)(“H1 at the resort region of Algarve and H2 at the city of Lisbon”).The distance between these two locations is 280km by car and both locations border on the north Atlantic.

Each observation represents a hotel booking. Both datasets comprehend booking due to arrive between the 1<sup>st</sup> July of 2015 and the 31<sup>st</sup> of August 2017,including bookings that effectively arrived and bookings that were canceled.

In this project we use descriptive analytics to understand the patterns, trends, and anomalies in data. We used the dataset to perform different problems like: Booking cancellation, number of stays in weekend or weekdays, number of special requests, is there guest is repeated or not, average daily rates, seasonality, favorite meal of the customers, types of room reserved by the customers, customer type, where do the guest come from? And many other things are performed in this project.

Our main objective is to find out the key metrics and solve the business problems. For this, we will explore and visualize the dataset from Hotel booking dataset using basic exploratory data analysis(EDA)techniques.

We have analyzed this dataset from different angles and have come up with interesting insights. This can help in making strategic data-driven decisions by the marketing team, finance team and technical team of all the Hotel booking applications.

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

- Kirtesh Verma([kirteshverma12345@gmail.com](mailto:kirteshverma12345@gmail.com))

### **Contribution:**

1. Data cleaning
2. Answering following questions:
  - a) What is the most preferred meal type?
  - b) What is the average stay of people on weekday and weekend night?
  - c) What hotel type received the most number of special requests?

- Pravin Bejjo([praveen.bejo.pb@gmail.com](mailto:praveen.bejo.pb@gmail.com))

### **Contribution:**

1. What is the booking ration between city and resort hotel?
2. What is the cancellation rate between the two types of hotel?
3. What are the types of guest?
4. Which months is the busiest month for hotel booking?

- Sahil Pardeshi([8623879021.sp@gmail.com](mailto:8623879021.sp@gmail.com))

### **Contribution:**

1. What is the average daily rate in both the hotel type?
2. Was there any type of deposit before booking a hotel?
3. What type of booking is most preferred by customers (online or offline)?
4. From which country most guests comes?

## Github Repo Link:

Github Link:-

<https://github.com/praveenbejo95/Hotel-booking-analysis-EDA->

**Google Drive Link:**

Drive Link:

[https://drive.google.com/drive/folders/1AnbdGQHgzS7oIl0Uwzzb1njUN-q\\_BDsm](https://drive.google.com/drive/folders/1AnbdGQHgzS7oIl0Uwzzb1njUN-q_BDsm)