

Capstone Project Submission

Instructions:

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

Team Member's Name, Email and Contribution:

1. Name → Meenakshi Singh

Email → meenakshicuul@gmail.com

Role :

- Finding out which is the busiest month for both hotels?
- Finding out which is the most occupied month for City hotel and Resort hotel?
- Analysis of the percentage of cancelled and non-cancelled bookings.
- Finding out which type of hotel is more likely to be cancelled?
- Analysis of the effect of meal type on cancellations.
- Finding out the percentage of bookings for each year.
- Finding out the total number of bookings by market segment.
- Analyzing how the Price Per Night (ADR) vary over the year by hotel type.
- Finding out how many night spent by Guest at the hotel by market segment.
- Finding out the most booked accommodation type (Single, Couple, Family).

2. Name → Gopal Ji Gupta

Email → gopaljigupta45@gmail.com

Role :

- Finding out what is the best time of the year to book a hotel room and which is the busiest month of the hotel?
- Analysis of the optimal length of stay to get the best daily rate.
- Finding out which market segment makes the highest number of Bookings?
- Analysis of effect of deposit type on cancellations.
- Analysis of special requests made by customer travelling with a child or baby.
- Finding out how often repeated guests cancel their booking as compared to others?
- Analysis of total number of bookings by Customer type?
- Analysis of number of cancellations by market segment and the relationship between cancellation and repetition of customers
- Analysis of days on waiting list by market segment and distribution channels.
- Analysis of number of booking changes on cancellations.

3. Name → Huzaifa Khan

Email → huzafakhan2974@gmail.com

Role :

- Checking which country has highest number of bookings.
- Finding out the busiest month of the hotel.
- Finding out which hotel has the highest number of cancellation.

- Finding out the most preferable meal.
- Analyzing that how long the guest stay at hotel on weekends and weekdays.
- Analyzing the bookings by customer type.
- Analyzing the total number of bookings and cancellations by market segment.

4. Name → Arbaaz Malik

Email → malikarbaaz267@gmail.com

Role :

- Finding out the types of hotel and analyzing the type of hotel which is having highest number of cancellations.
- Finding out the busiest month of the hotel
- Analyzing the countries with highest bookings.
- Analyzing how cancellations vary according to month.
- Finding out the most preferred meal by the customer.
- Finding the relation between repeated customer and cancellation.
- Finding whether the guest stay in over a weekend or weekdays.
- Exploring the number of special requests in general.
- Analyzing the bookings by market segment and distribution channel.

Please paste the GitHub Repo link:

Github Link:- <https://github.com/Malikarbaaz/Malik-Hotel-booking-EDA->

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:-

Hotel industry is a very volatile industry and the booking depends on variety of factors such as type of hotels, prices, month, meal, country, etc.

This makes analyzing the patterns available in the past data and with the help of that data it helps to improve the hotels plan better.

The objective of this exercise is to perform Exploratory Data Analysis on the given dataset which contains booking information for the types of hotel. Using EDA, we will explore the Data and try to gain some valuable insights that can help the Hotels strategize.

Conclusion:-

1. We see that majority of the hotels booked are City hotel, we should need to spend the most targeting fund on these hotels.
2. Most of the bookings were made from July to August, so these months are peak in business expansion and need to look after more customer satisfaction.
3. Portugal, Great Britain, France, Spain are the list of top countries where most of the guest come from.
4. As seen above City hotel has highest number of cancellation, so according to hotel point of view the cancellation should be reduce by applying non refundable charges, so it might be directly affect to guest so there is a possibility that cancellation should be reduced.

5. We see that from graph we have very less repeated guests, so we should target our advertisement on these guests by offering special discounts to increase the returning guests.
6. Also hotels should consider maximum number of special requests from guests because it will to reduce the possibility of cancellations which will eventually help in better customer experience for the guests.