**Project Title:-Hotel bookings data analysis**

Summary

Have you ever wondered when the best time of year to book a hotel room is? Or the optimal length of stay in order to get the best daily rate? What if you wanted to predict whether or not a hotel was likely to receive a disproportionately high number of special requests? This hotel booking dataset can help you explore those questions! This data set contains booking information for a city hotel and a resort hotel, and includes information such as when the booking was made, length of stay, the number of adults, children, and/or babies, and the number of available parking spaces, among other things. All personally identifying information has been removed from the data. Explore and analyze the data to discover important factors that govern the bookings.

First step of our project was to import a dataset from the almabetter . as it had missing values we removed missing values and then moved further to EDA. From our EDA, we have observed that the top most important patterns in the data set which will helps in Hotel booking business

### Reasons for booking cancellations across various parameters:- Where we found that almost 35% of bookings were canceled and that was a great number to be concerned about.Approx 30% bookings were canceled by guests with no deposit type & 50% bookings were canceled by guests with Refundable policy the guests with no modifications canceled bookings. Around 42% AS highest ADR in August may be it could be one of the reasons for more canceled bookings in August

### Strategies to Counter High Cancellations at the Hotel:-Encourage Direct bookings by offering special discounts.Monitor where the cancellations are coming from such as High ADR , Deposit type, etc.Set Non-refundable Rates, Collect deposits, and implement more rigid cancellation policies

### Best time to book a hotel:-Couple (or 2 adults) was the most popular accommodation type. So hotels can make arrangement plans accordingly. Most bookings were made from July to August. And the least bookings were made at the start and end of the year. More than 60% of the population booked the City hotel.The majority of guests come from western europe countries.Portugal, the UK, and France, Spain and Germany are the top countries from which most guests come, more than 80% come from these 5 countries.More than 47% bookings were made in 2015, 34% to the 2016 year. But the bookings decreased by almost 16% next year . .

Contributerts Roles:

1.Lalit Ahirrao:

1.Data Wrangling

2.Handeling missing values

3.Understanding patterns of dataset

4.Number of people books city hotels and resort hotels

5.Best segment and popular segment to book hot

6.HeatMap

2.Aniket Gajmal:

1.Data Wrangling

2.Handeling missing values

3.Understanding patterns of dataset

4.Year with most lead time

5. Distribution channel people prefers to book hotels

6.Expensive year from all the years

3.Rushikesh Pawar:

1.Data Wrangling

3.Understanding patterns of dataset

3.Which hotels shows maximum and minimum cancellation

4.which year shows maximum bookings.

5.Room types people are bookings

4.Prasad Ghegade:

1.Data Wrangling

2.Understanding patterns of dataset

3.busiest month of the year. Month with least traffic.

4.percentges of people who had reservations

5.Deposite types customers are accepting

6. Expensive month for booking hotels

5.Samarth Gangurde:

1.Data Wrangling

2.Understanding patterns of dataset

3.Numberes of adult visited hotels

4.Meals people are preferring most

5.Most of the modification after the reservation

6.Car Parking space available

7.Countries from which most of the people visited