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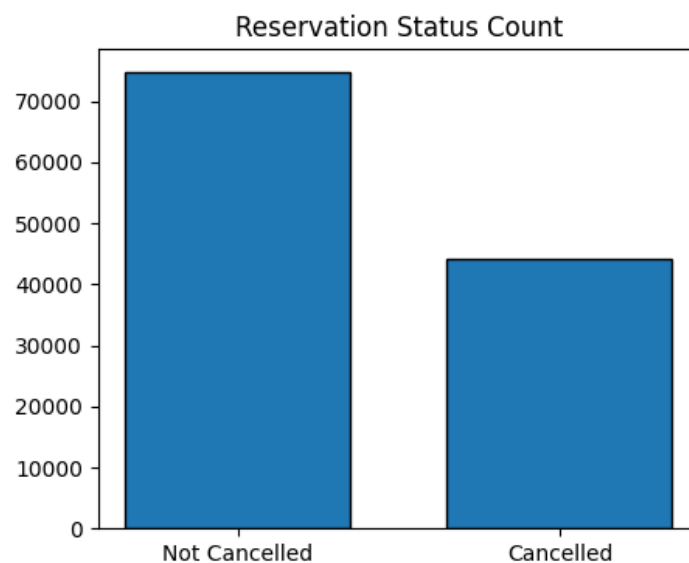
Research Questions

1. What are the variable that affect hotel reservations cancellation?
2. How can we make hotel reservations cancellation better
3. How will hotels be assisted in making pricing and promotional decisions?

Hypothesis

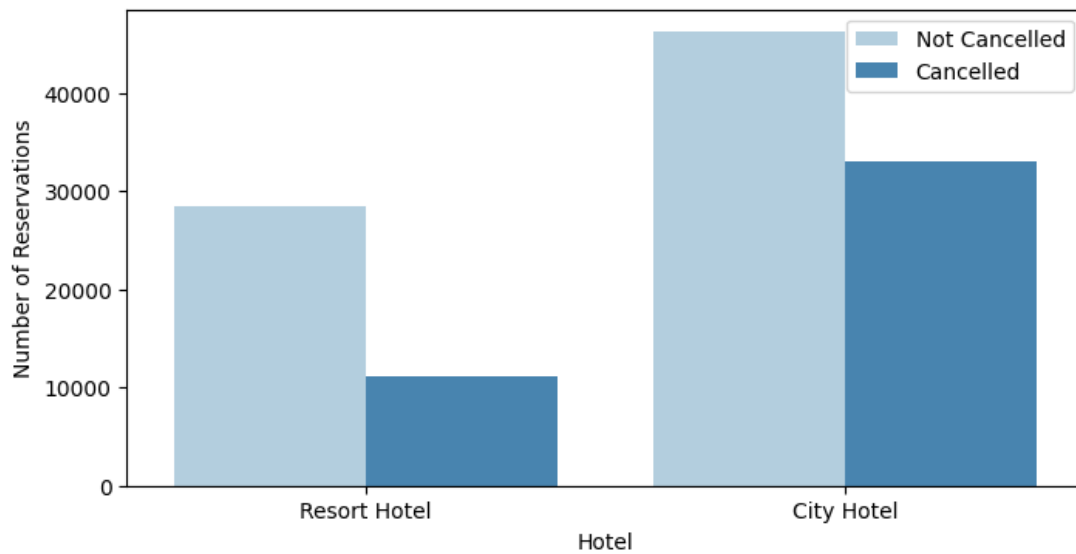
1. More cancellations occur when prices are higher.
2. When there is a longer waiting list, customers tend to cancel more frequently.
3. The majority of clients are coming from the offline travel agents to make their reservations.

Analysis and Findings



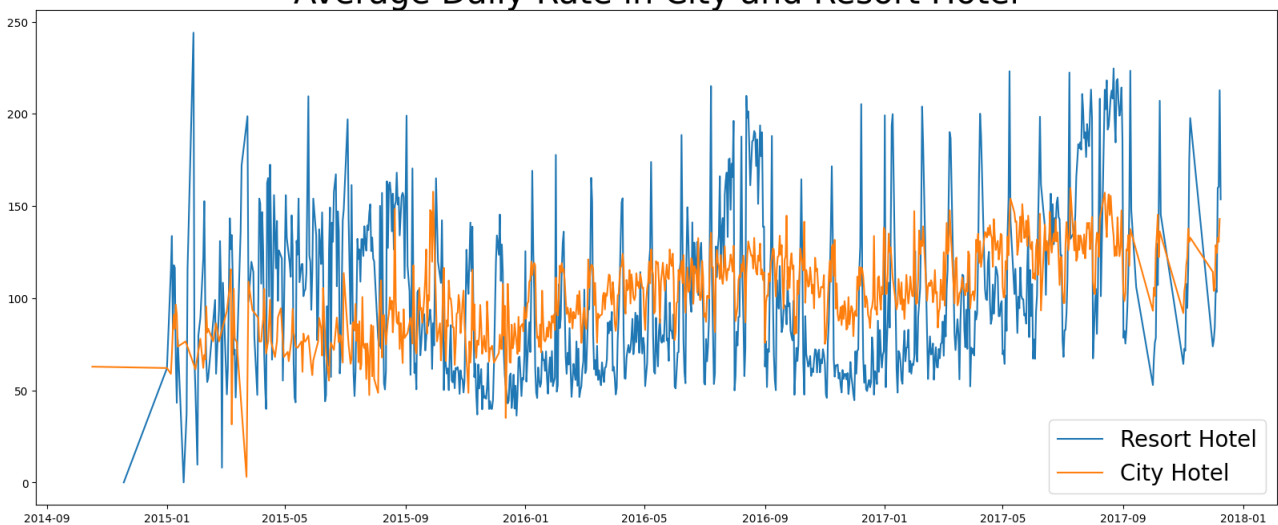
The accompanying bar graph shows the percentage of reservations that are cancelled and those are not. It is obvious that there are still significant number of reservations that have been not cancelled. There are still 37% of clients who cancelled their reservation, which has a significant impact on the hotel's earnings.

Reservation Status in Different Hotels



In comparison to resort hotels, city hotels have more bookings. It's possible that resort hotels are more expensive than those in cities.

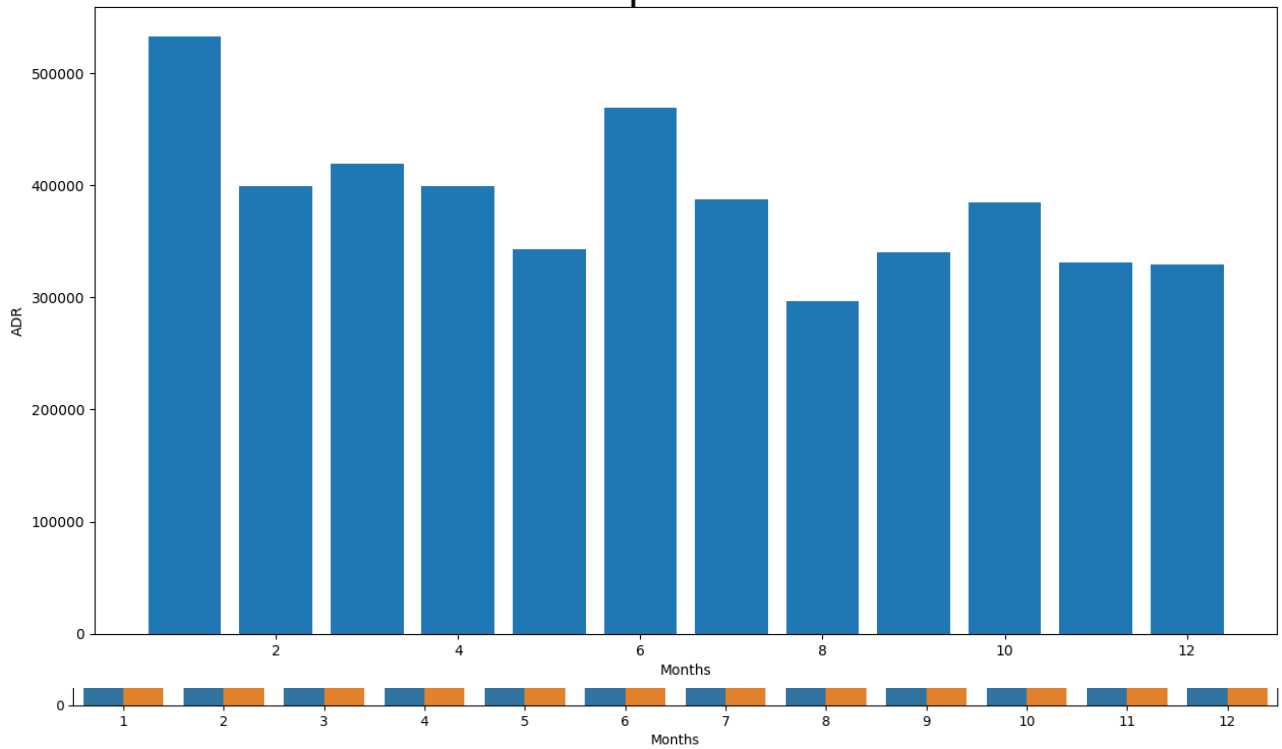
Average Daily Rate in City and Resort Hotel



The line graph above shows that, on certain days, the average daily rate for a city hotel is less than that of a resort hotel, and on other days, it is even less. It goes without saying that weekends and holidays may see a rise in resort hotel rates.

We have developed the grouped bar graph to analyze the months with the highest and lowest reservation levels according to reservation status. As can be seen, both the number of confirmed reservations and the number of cancelled reservation are largest in the month of august. Whereas January is the month with the most cancelled reservations.

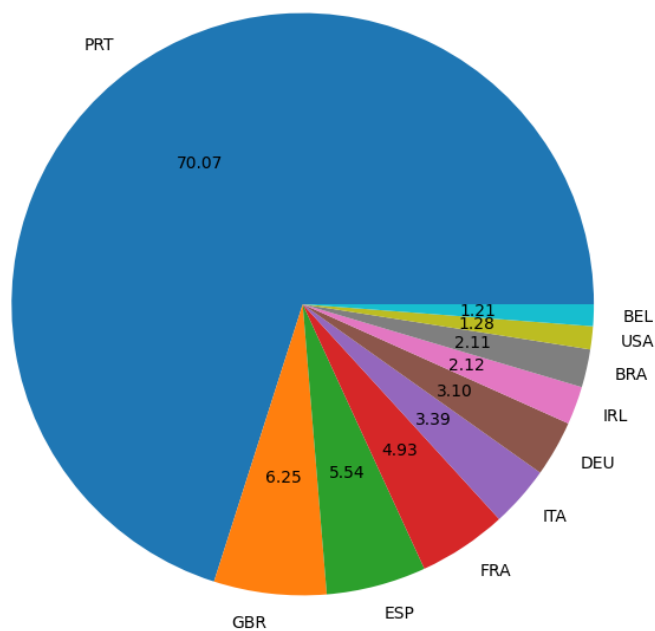
ADR per month

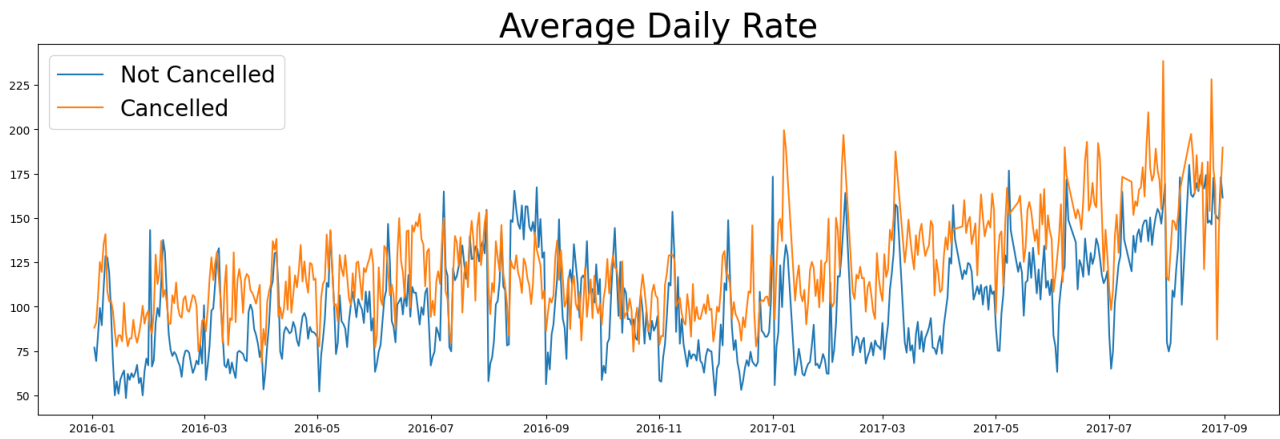


This bar graph demonstrates that cancellations are most common when prices are greatest and are least common when they are lowest. Therefore, the cost of the accommodation is solely responsible for the cancellation.

Now, let's see which country has the highest reservation cancelled. The top country is Portugal with the highest number of cancellation.

Top 10 Countries with Reservation Cancelled





Let's check the area from where guests are visiting the hotels and making reservations. Is it coming from direct or groups, online or offline travel agents? Around 46% of the clients come from online travel agencies, whereas 27% come from groups. Only 4% of clients book hotels directly by visiting them and making reservations. As seen in the graph, reservation are cancelled when the average daily rate is higher than when it is not cancelled. It clearly proves all the above analysis, that the higher price leads to higher cancellation.

Suggestions

- Cancellation rates rise as the price does. In order to prevent cancellations of reservations, hotels could work on their pricing strategies and try to lower the rates for specific hotels based on locations. They can also provide some discounts to the customers.
- As the ratio of the cancellation and not cancellation of the resort hotel is higher in the resort hotel than the city hotels. So the hotels should provide a reasonable discount on the roof prices on weekends or on holidays.
- In the month of January, hotels can start campaign or marketing with a reasonable amount to increase they revenue as the cancellation is the highest in this month.
- They can also increase the quality of their hotels and their services mainly in Portugal to reduce the cancellation time.