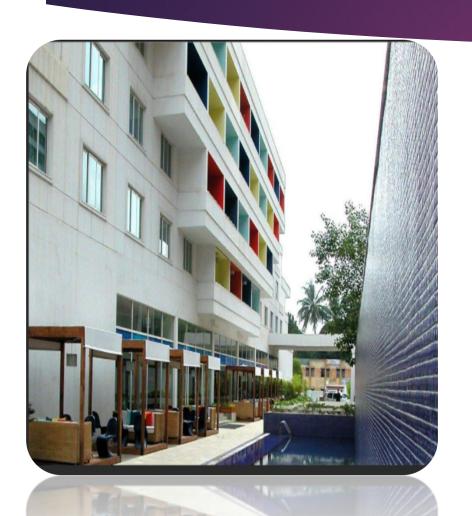
- 1EDA ON: HotelBooking Analysis

Present By : Bhagyashri Ramesh Dhavale.

Legends



- Hotel Selection Aanalysis
- II. Based on facility.
- III. Summary Data.
- IV. Market Aanalysis.
- v. Booking cancellations.
- VI. Challenges.
- VII. Conclusion.

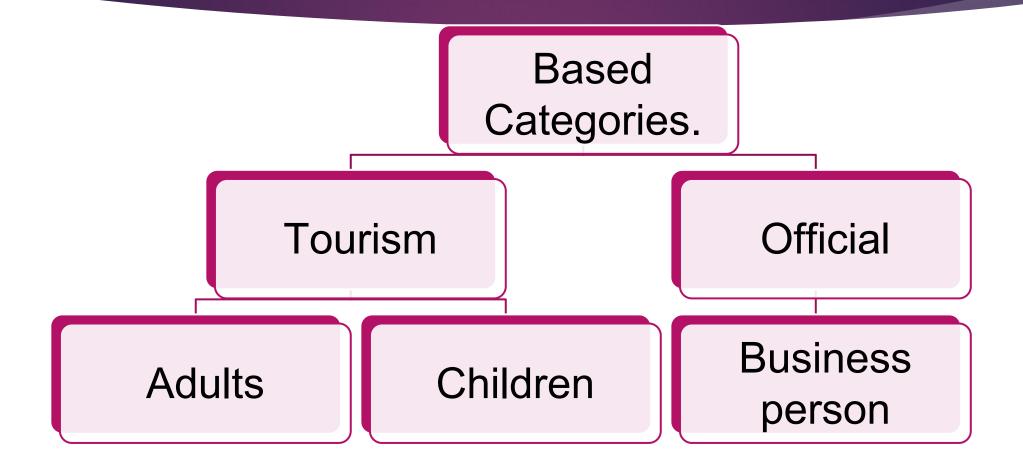
I. Hotel Selection Aanalysis

Based on Categories.

Resort Hotel.

City Hotel.

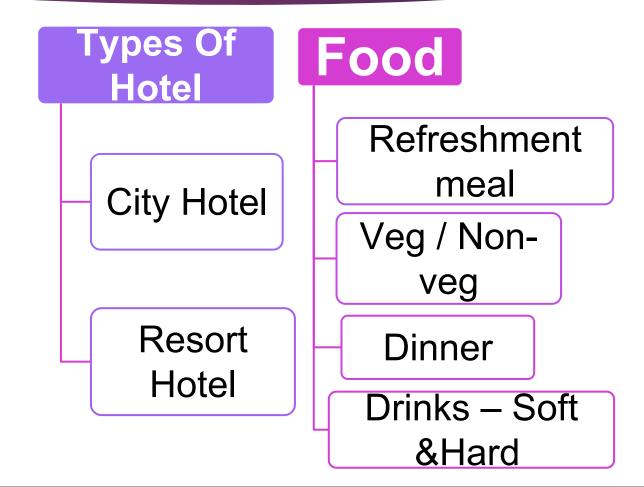
Continue...



Based On Facilities.

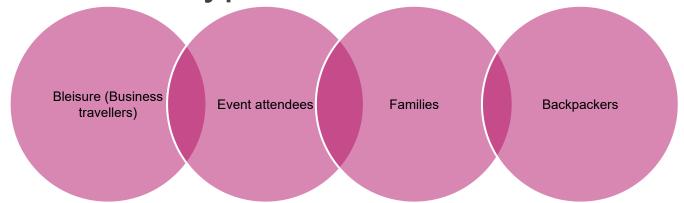
- I. Purpose Of Visit :: A. OfficialB. Tour/Spiritual
- II. Based On Area / Location.
- III. Car Parking Sufficient space with good car parker / driver availability.

II. Summary Data.



III. Market Segment.

- In that we have summarize the purpose of booking, it may be official work / corporate and may be picnic / tourism also.
- Timewise analysis Duration.
- Customer type



IV. Booking /Cancellations

Booking

- Maximum :- July to August
- Minimum :- November to February

Cancellation

S

- I. Sudden changes in plan II.. Minimum work length
- III. Based area / Location IV. facilities

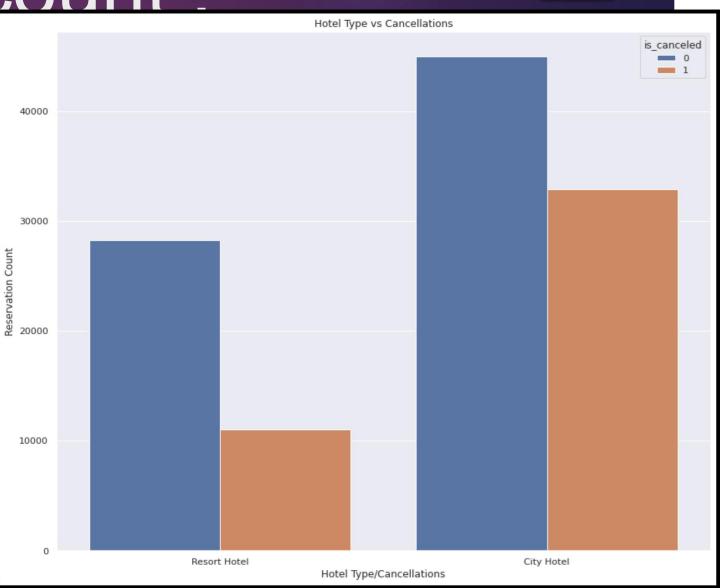
Reservation count:

υ City hotel has more reservation compared to Resort hotel

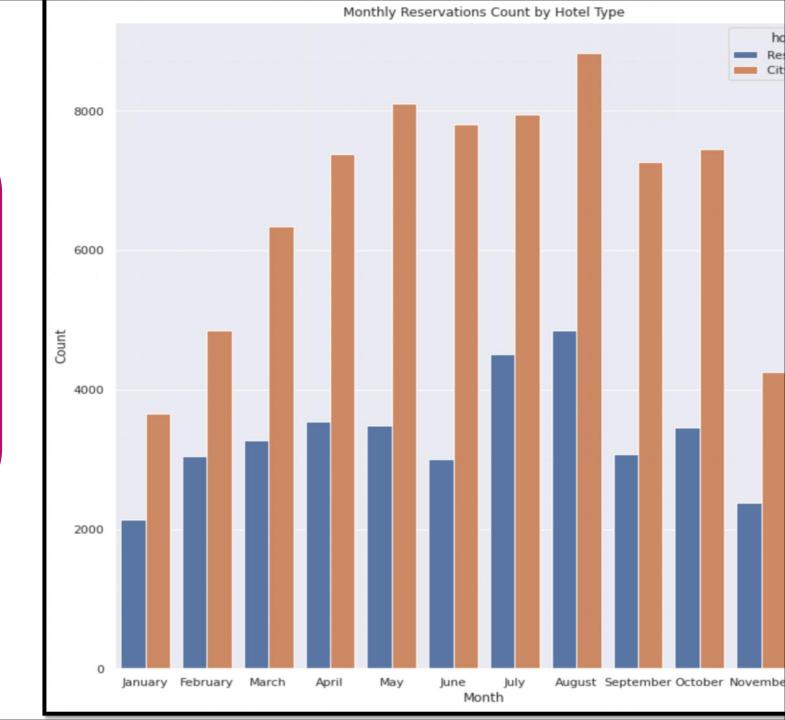


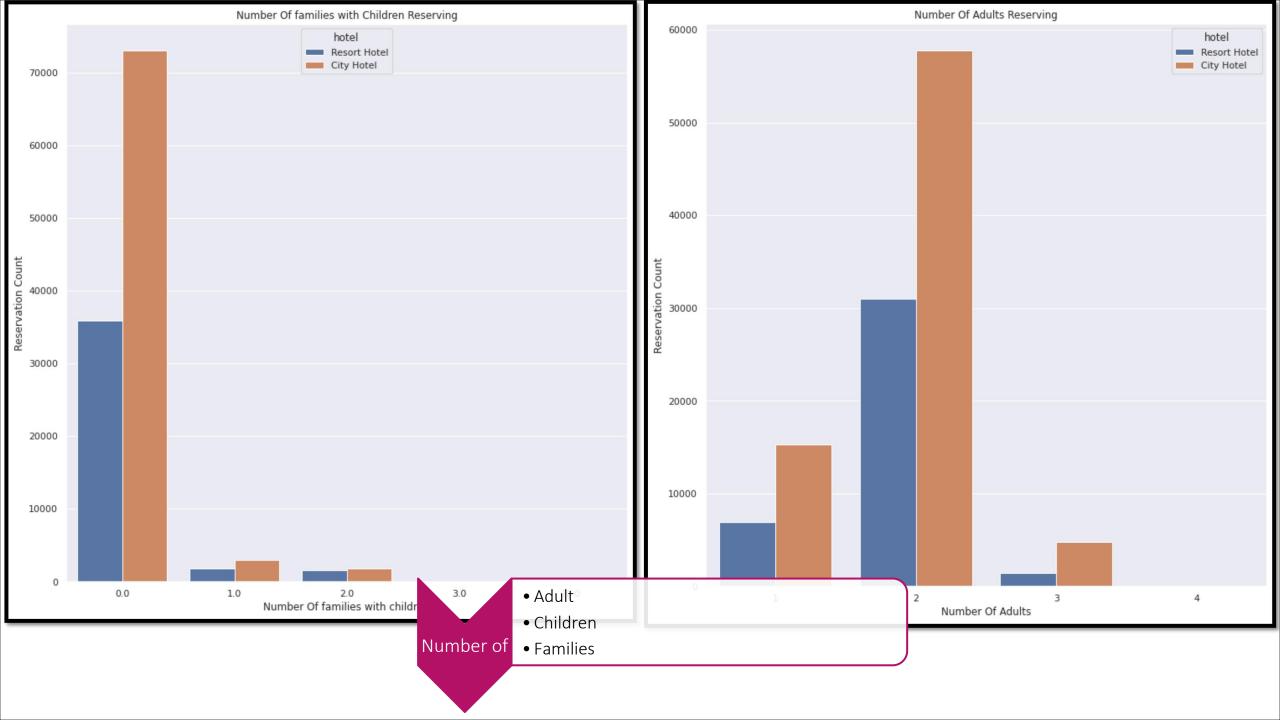
Cancellation count :-

City hotel has more cancellations compare to Resort hotel.



Monthly Reservation Count





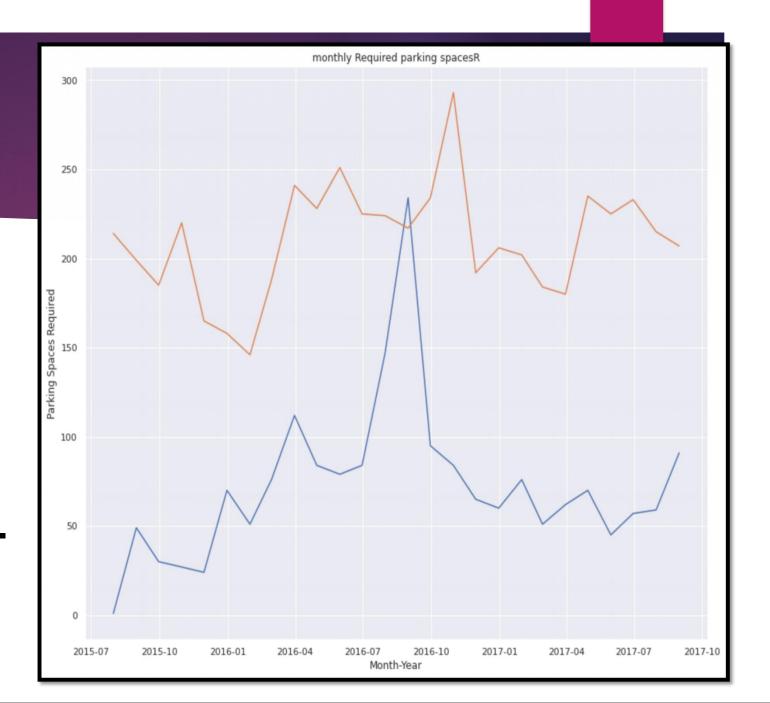
Month wise customer frequency.

- Resort Hotel have more quantum as a families compared to city hotel.
- wise versa city hotel have more customers/quantum as a single entity resulting more customers with less quantum frequency.



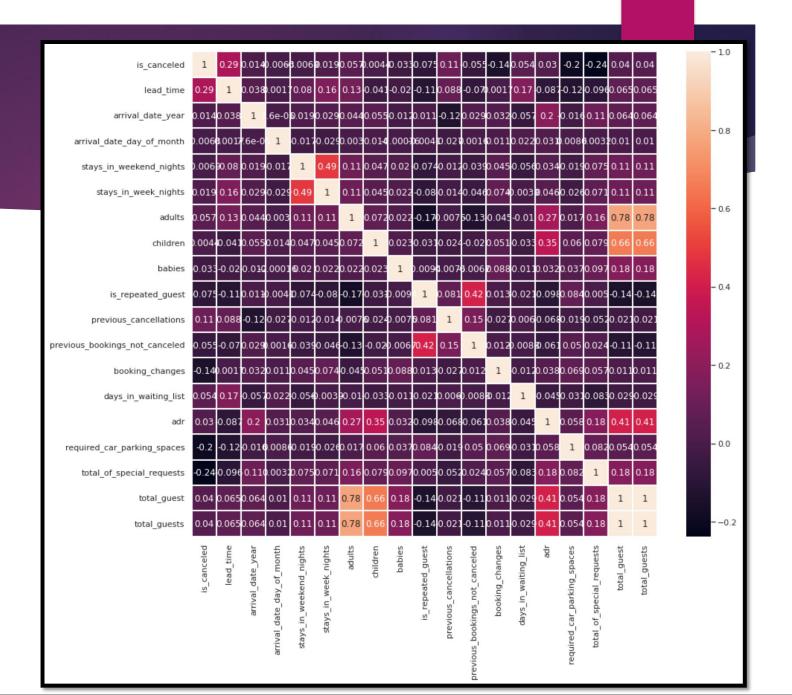
Car parking spaces.

Due to maximum booking City hotel must have more parking spaces compare to resorts.



Heatmap.

- I. Lead time and total stay is similar.
- II. Repeated guests are more.
- III.Previous booking not cancelled is similar with repeated guests because not more likely to cancel their bookings.



V.Challenges.

- Huge chunk of data was to be handled keeping in mind not to miss anything which is even of little relevance.
- Computation time.
- Feature selection quite challenges.

VI. Conclusion

This project contains the data records of city hotel and resort hotel details like booking, cancellations guests details etc. From 2015 to 2017.

- 1) City hotel has more reservation than resort hotel.
- 2) City hotel has more cancellations compared to resort hotel.

```
df.info()
<class 'pandas.core.frame.DataFrame'</pre>
Int64Index: 117182 entries, 2 to 1193
Data columns (total 32 columns):
     Column
     hotel
     is canceled
     lead time
     arrival date year
     arrival date month
     arrival date week number
     arrival date day of month
     stays in weekend nights
     stays in week nights
     adults
     children
     babies
     meal
     country
     market segment
     distribution channel
     is repeated guest
     previous_cancellations
     previous_bookings_not_canceled
     reserved room type
```

Continue....

- 3) Resort hotels are choice for large groups / families.
- 4) City hotel has more guests in August and resort hotel also has more guests in August.
- 5) High business March to October
- 6) Low business November to January.

Continue....

- 7) More number of people in guests results in more number of **special requests**.
- 8) In 2016 city hotel parking reached 300 and resort hotel has surge parking.

THANK YOU...