

Capstone Project Submission

Instructions:

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

Team Member's Name, Email and Contribution:

Team Member's Name :- Mohit Jain

Email :- jainmohit02.mj@gmail.com

Contribution:-

1. Imported all the libraries for data exploration, Sorting, Cleaning and Visualization.
2. Imported and mounted data set require for analysis from google drive to google co lab.
3. Exploring data set like number of columns and row with heading and what is data type of each value using python libraries methos like Info(), shape, describe(),Head(),Tail().
4. Checked Null Value and enriched/dropped/replace with appropriate value using basic business knowledge and requirement with help of mathematics rules.
5. With all the group member brainstorming finalize some observation and their visualization with interpretation.
6. With the group help prepare presentation.
7. Conclusion

Team member Name : Chetan Patil

Email: chetanpatil4160@gmail.com

Team contributions

1. Find the question
 - I. which type of hotel preferred
 - II. Maximum booking country wise
 - III. Which type of market segment gives more booking
 - IV. Which type of meal preferred
2. Did some work on data visualization
3. Did some work on data cleaning
4. Did some work replacing null values
5. Add some new columns (kids, total visitors)
6. Find solutions for questions
7. Worked on conclusion
8. Presentation

Team member name: Rajesh Patil

Email: rajesh.patil775607@gmail.com

Team contribution:

- 1) Question forming
 - a) which type of hotel has maximum booking?
 - b) which month has maximum and minimum booking?
 - c) what type of meal is preferred by visitor at the time of hotel booking.
- 2)data cleaning
 - a) some columns have null values so helped to cleaned the data
- 3) data visualization by using line chart
 - a) which type of hotel has maximum booking?
 - b) which month has maximum and minimum booking?
- 4)technical document preparation
- 5) data visualization by using pie chart
 - a) what type of meal is preferred by visitor at the time of hotel booking.
- 6)Helped to make Presentation ppt

7)conclusion

Team member name : Siddharth Choury

Email:

Team contributions

1) Question forming

- a) Analyzed which Year has highest booking and waiting list.
- b) Analyzed visitor preference to stay on weekdays or weekend.
- c) Analyzed customer repetition percentage.
- d) Analyzed which method of booking is preferred by visitor.

2) Worked on Presentation preparation and its interpretation.

3) Worked on conclusion.

Please paste the GitHub Repo link.

Github Link:- <https://github.com/jainmohit02/EDA-Hotel-Booking-Analysis>

Please write a short summary of your Capstone project and its components. Describe the problem statement, your approaches and your conclusions. (200-400 words)

EDA Project on Hotel Booking Analysis: To understand hotel booking analysis and drawing insightful from provided data set initially I have checked that what is the column of data set is indicating i.e. hotel type, lead time, total number of people, booking month, date and year, cancellation status, meal preferred while booking Hotel, which platform is widely used for booking, etc.

After this I check that what are the values filled in data set are of appropriate type for analysis, is there any missing value i.e. null values, formatted data and added some column for effective analysis.

After cleaning, we all worked on observations we can extract from data set for value addition in business decision. Some of the observation I have contributed are checked which type of hotel is preferred by visitors, which month and year was busiest, mode of booking, preferred meal, etc.

Conclusion:

- Most of the visitor preferred hotel is city hotel as compared to Resort Hotel. So can have a more concentric focus on City hotel for delightful to customer and profit for the Business.
- Majority of the guests are from Western Europe. This the very sensitive are for hotel business as the number of bookings is very high and we have to focus on customer satisfaction & customer special request are fulfilled.
- The number of repeating guests is very less, we have to focus on some special discount to increase retention rate.
- As the cancellation is also on the upper side and to optimize this, we have to implement some deposit of booking amount if visitors are advance booking.
- The busiest month was august, may be due to summer vacation.

