Capstone Project Submission

Team Member's Name, Email, and Contribution:
1 Sandesh Gaikwad Email:- sandeshg3.14159@gmail.com Contribution: - Everything(individual Project)

Please paste the GitHub Repo link.
Github Link:- https://github.com/GaikwadSandesh/HotelBookingAnalysis

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

Problem: Look at the data and study the booking pattern by month, so that next month's resources can be managed prior. Look for the cancelation rate and see if there is any pattern and what methods can be used to reduce the cancelation. What changes can be made to increase profitability?
 	
Approach: First Handel all null values. Replace null values appropriately. Use plots to visualize data. Use group-by-functions to group customers into different categories and find patterns. Make conclusions from plots
 	
Conclusions / Recommendations:
● Hotels should charge some booking deposit for the following types of people
    ○ People who have a lead time greater than 100 days
    ○ Customers with previous cancellations
    ○ Large group bookings
 	
● Resources management
 	
    ○ Weekends are busiest
 	
    ○ Most people order breakfast
 	
    ○ Nov, Dec, Jan, Feb, March are least busy months