

Capstone Project submission

Team Members

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Summary

We selected Hotel Booking Analysis as our Capstone Project because we thought this topic may provide us new information about Hotel Industry which might be also useful to hotel owners.

In this project we got one CSV file containing data about hotel bookings.

In first as we started project we faced lot of confusion about project and how to do it because this was our first project. So we started referring older project for guidance. We also discussed within ourselves and worked some ideas that which question we might want to answer from given data to get proper idea of how hotel industries bookings, castings, cancellation varies during whole season or given period.

So during the process we studied various projects and we got the idea of how to move forward with the project so individually we started or project and then the next hurdle we come across was how to tackle with so many missing values specially in columns like "company" , "agent" , "country" , "children", so we tackled it properly.

Children column contains the count of children, so we replaced all the missing values with the rounded mean value. And our country column contains country codes representing different countries. It is a categorical feature so we replaced it with the mode value. The mode value is the value that appears more than any other value. So, in this case, we replaced it with the country that appears the most often. We can see different data types for different columns.

After cleaning all the data we get to know full preview of data and now we can tackle questions for which we want to know answers. For guidance we also searched previous EDA projects that what might be right questions that need to be answered. So we selected few question like which type of hotel customers prefer? What is month wise average ADR? What is room wise ADR? From which

country the most customers came? Which type of hotel type get most repeated customer? And we tried to answer it on above analysis.

In conclusion we find out the most preferred hotel type is city hotel, the most visitors came from country Portugal , Hotel saw highest occupancy in month of august , cancellation percentage is near about 40% for city type hotel and much more.

Github Link - <https://github.com/j0kr97/HOTEL-BOOKING-ANALYSIS>

Google drive link -

https://drive.google.com/drive/folders/1O4b4e4wVRy_26PdAeGK9iNPStNFiQWut?usp=sharing