Capstone Project Submission

Hotel Booking Analysis

This project contains the real world data record of hotel bookings of a city and a resort hotel containing details like bookings, cancellations, guest details etc. from 2015 to 2017. Main aim of the project is to understand and visualize dataset from hotel and customer point of view i.e.

- reasons for booking cancellations across various parameters

- best time to book hotel

- peak season

- most common rooms

- busiest month

- parking space analysis

- ADR and revenue   and give suggestions to reduce these cancellations and increase revenue of hotels.

In this EDA project we were provided with dataset i.e

Hotel Bookings.csv-> contains all the details of the hotels (city and resort hotel) around the world from 2015 to 2017.

At first, we break down the datasets by importing necessary library classes, followed by checking null values, converting the null values to readable value, removing the duplicates rows & making the entire dataset ready for analyzing and plotting actionable insights.
After examining null & missing values from the dataset we directly went deep into the visualization steps.

Some insights on which we worked are as follows:

- Which hotel have the maximum number of bookings?

- What is the percentage of cancellation?
- .Calculate the **ADR** with respect to **distribution channel**?
- Which has the average ADR between hotels?
- Find out the booking trends on total stays by the customers?
- Which is the most preferred room type by the customers?
- Market segment that has highest cancellation rate?
- Which meal type is most preferred meal of customers?
- Which Hotel makes more revenue?
- Percentage of car parking space required?
- Which is the busiest month in a calendar year?

Contributor Roles

1. Sanjay khatri (sanjaykhatri2117@gmail.com)

- Upload dataset to Google colab and explain dataset to team members.
- Analyze null values and filter them.
- Data cleaning.
- Correction of data types
- Data wrangling
- Data Visualizations
- PowerPoint presentation

2. Aman jain (jainaman1299@gmail.com)

- Upload dataset to Google colab and explain dataset to team members.
- Analyze null values and filter them.
- Data cleaning.
- Correction of data types
- PowerPoint presentation
- Project summary
- Data Visualizations

3. Susmita sardar (sushmitasardar06@gmail.com)

- Upload dataset to Google colab and explain dataset to team members.
- Data wrangling
- Data Visualizations
- Technical Write up
- PowerPoint presentation
- Project summary
- Correction of data types

4. Vineeth kumar V (vp19vineeth@gmail.com)

- Upload dataset to Google colab and explain dataset to team members.
- Analyze null values and filter them.
- Data cleaning.
- Correction of data types
- Data wrangling
- PowerPoint presentation
- Project summary

5. Lalan jaiswal (lalan.jaiswal12@gmail.com)

- Upload dataset to Google colab and explain dataset to team members.
- Analyze null values and filter them.

- PowerPoint presentation Project summary Data cleaning.
- Correction of data types
- Data wrangling

Please paste the Github Repo link:
https://github.com/sushmitasardar/Tesla-code-EDA-project.1