**Technical document**

This EDA project subject to the analysis “Hotel Bookings” of dataset 1,19,390\*32 provided by the Alma Better for the capstone project in during the analysis we found 31,994 duplicate rows, after removing them we also removed the company column which we found no so useful for further analysis, net shape of the dataset in use is 87,396\*31.

**Dataset Name** – “Hotel Bookings”

**Library used** – Pandas as pd

Numpy as np

Matplotlib as plt

Seaborn as sns

**Points under consideration: -**

* Which customer type preferred the most City hotel

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* Which type of hotel non refunded the most.
* Which distribution channel is mostly used for booking Resort hotel.

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* Which type of hotel is preferred by customer having babies.
* Which type of hotel is most preferred for week night.
* Which year has highest booking and cancellation based on market segment (Direct).
* Which food is most preferred by customer based on top 5 country.
* Which Month is favorable for booking.
* Which are the top five agents for Resort hotel.
* Hotel data based on month where repeated guest is 0.

**Project Summary**

* + Transient customer most preferred the city hotel.
  + City Hotel not refunded the most 845 in comparison of resort hotel 193.
  + TA/TO is most preferred distribution channel for booking for resort hotels.
  + City hotel is most preferred by customers having babies as compared to resort hotel.
  + City Hotel is most preferred for week night as compared to resort hotel.
  + in the year 2016 has highest booking and cancellation based on market segment (Direct).
  + Portugal preferred the BB food in top 5 countries.
  + August month is most favorable month for booking.
  + 240.0 is the top agent for booking resort hotel.
  + August month has no repeated guest with 0.
  + From the above conclusions we can say that City hotels are the most preferred hotel type by the guests. We can say City hotel is the busiest hotel.

**Bibliography**

**pandas documentation** <https://pandas.pydata.org/docs/>

**Geeksforgeeks**  https://www.geeksforgeeks.org