**Capstone Project Submission**

**Instructions:**

i) Please fill in all the required information.

ii) Avoid grammatical errors.

| **Team Member’s Name, Email and Contribution:** |
| --- |
| Akash Kumar – [akashislimit@gmail.com](mailto:akashislimit@gmail.com)  Kunal Kamble – kunalkamble1097@gmail.com  Abinash Kanungo – abinashkng@gmail.com  Zueb Ansari - aligzueb@gmail.com |
| **Please paste the GitHub Repo link.** |
| Github Link:- <https://github.com/Akash-1609/EDA-Project-on-Hotel-booking-analysis>  Google Drive Link:- https://drive.google.com/drive/folders/1cB0c8SGqD7-oX\_ypjL68IvJjMhu2cGWv |
| **Please write a short summary of your Capstone project and its components. Describe the problem statement, your approaches and your conclusions. (200-400 words)** |
| We used the dataset that contains data about hotel bookings.  We cleaned and pre-processed the data and then we performed the exploratory data analysis to extract information from the data to answer the following questions.  **1. What types of hotels in market and how many numbers of hotels in each type?**  **2. How Many bookings were cancelled for different types of hotels?**   * **Year wise comparison of booking of hotels.**   **3. Which is the busiest month for hotels?**   * **Now we will check comparatively for both types of hotels which month is busiest.**   **4. Which was the most booked accommodation type (Single, Couple, Family)?**  **5. Which type of meal booked?**  **6. From which country most guests come?**  **7. Which type of market segment is used for bookings hotels?**  **8. How much guests pay per night for each type of rooms?**   * **Assigned room type**   We learned that   * According to this analysis number of City hotels comparatively more than Resort hotels. Resort Hotel tend to be on the expensive side and most people will just stick with city hotel. * City hotels bookings are more cancelled than resort hotels. * In year 2016 most numbers of guests visited the both type of hotels compares to other years. * August is the busiest month for hotels, which means august month has the greatest number of bookings. * August is the busiest month for both type of hotels. * Couples (No Children) has the greatest number of bookings. * BB i.e., Bed & Breakfast is most preferable meal type of the guests which is 77.4% * Most of the guests come from PRT i.e., Portugal. * Guest uses most online TA market segment for hotels booking. * 'G' category room of city hotel are much costlier than other. * 'A' type rooms are most assigned room type among all. |

**Roles and Responsibilities**

The project hotel booking analysis having of four members mention below:

1. Akash Kumar

2. Kunal Kamble

3. Zueb Ansari

4. Abinash Kanungo

Akash Kumar :

I first decided to take up this project solely due to our mutual interest in HOTEL BOOKING ANALYSIS then after group discussion we all agreed to make an individual google colab notebook so that the we can see the amount of creativity an individual has, I started working on the colab note book. first, we go through all the data that is given data source, after working few days on project we discussed what things should be add in colab note book , so that’s how we made our colab notebook.

I have done the data pre-processing by dropping null values and fetching duplicates and dropping unnecessary data.

After that find the problem statement and insights which are given in colab notebook.

The editing part was all done by me in google colab , merging and all the stuff we do to create our google colab worth it .

Kunal Kamble :

Initially I started with looking at each database available to us for the HOTEL BOOKING ANALYSIS it was not huge data but it was our first project and we all were so excited to do it we go through the data try to understand it , we actually did lot of group discussion how to work as team to make our project more creative, since teams colab was ready I made some small changes in colab like adding an image, introduction and so on, it looks somewhat different and attractive , then I prepare a summary of colab my team members helped me while doing so

It was a great feeling as we completed the project and I learnt so much from my team members

Zueb Ansari :

It’s my first project HOTEL BOOKING ANALYSIS as soon as we are ready with the google colab I started working on the presentation its actually consist the information that we get from the google colab whenever there is problem my team members helped me making the presentation more attractive and decent, I learnt many things from my team members it was actually great experience

Abinash Kanungo :

I started working on this project but first I took some time to understand it as soon as we done with colab then I helped zueb making presentation which consist of the summary of colab and much more, we discussed a lot of things while making a presentation, since this is our first project, we faced lot of issue but as a team we able to encounter all the problems