**Capstone Project Submission**

**Instructions:**

i) Please fill in all the required information.

ii) Avoid grammatical errors.

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| **Team Member’s Name, Email and Contribution:** |
| **Contributor Roles:**   1. **Nikita Negi:-**   [nikitanegi4100@gmail.com](mailto:nikitanegi4100@gmail.com)   * Data Wrangling :  1. Finding the null values “Nan”. 2. Replaced those null values with zeros.  * Data Preparation  1. Converting “Float” data type into “integer”. 2. Convert the datatype to “String”.  * Meals * Most preferred hotel percentage by customers * Cancelled Booking * Monthly booking of different hotel * Merge “children”, “babies” and “adults” columns into “members” column.  1. **Rohit Sakharkar:-**   [rohitsakharkar11@gmail.com](mailto:rohitsakharkar11@gmail.com)   * Data Wrangling:  1. Finding the null values “Nan”. 2. Replaced those null values with Zeros.  * Data Preparation  1. Converting “Float” data type into “integer”. 2. Convert the datatype to “string”      * Merge “children”, “babies” and “adults” columns into “members” column * Confirmed booking * Customer type * Relation between price and month * Yearly booking of different hotel.  1. **Mithlesh Singh:-**   [mks937449@gmail.com](mailto:mks937449@gmail.com)     * Data Wrangling :  1. Finding the null values “Nan”. 2. Replaced those null values with zeros.  * Data Preparation:  1. Converting “Float” datatype into “integer”. 2. Convert the datatype to “string”  * Deposit type * Repeated guests * Average daily rate * Meals  1. **Ashish Yadav:-**   [itsmeashu2000@gmail.com](mailto:itsmeashu2000@gmail.com)   * Data Wrangling :  1. Finding the null values “NaN” 2. Replaced those null values with zeros.  * Data Preparation:  1. Converting “Float” datatype into “integer”. 2. Convert the datatype to “string”  * Cancelled Bookings * Arrival date by months * Year of arrival * Market segment  1. **Shubham Sanklecha:-**   [shubhamsanklecha400@gmail.com](mailto:shubhamsanklecha400@gmail.com)   * Data Wrangling :  1. Finding the null values “NaN” 2. Replaced those null values with zeros.  * Data Preparation:  1. Converting “Float” datatype into “integer  * Booking Changes * Reservation status * Yearly booking of different hotel * The booking and cancelled status of different hotels |
| **Please paste the GitHub Repo link.** |
| Github Link:- <https://github.com/Nikitanegi0410/Hotel-Booking-Analysis.git> |
| **Please write a short summary of your Capstone project and its components. Describe the problem statement, your approaches and your conclusions. (200-400 words)** |
| In this project, we have explored and analyzed the data to discover key factors that govern the hotel bookings. Hotel industry is a very volatile industry and the bookings depend on variety of factors such as type of hotels, seasonality, days of week and many more. We will be using the data available to analyse the factors affecting the hotel bookings. These factors can be used for reporting the trends and predict the future bookings. This dataset includes information on booking reservation, the number of adults, children, and/or babies, and the number of available parking spaces, arrival date month, arrival date day of month, arrival date year, is repeated guest, previous cancellations, previous bookings not cancelled, reserved room type, booking changes, among other things. The database distinguish between the booking information for 2 major hotels types a city hotel and a resort hotel.  First we cleaned the date, in this processes fixing or removing incorrect, corrupted, incorrectly formatted, duplicate, or incomplete data within a dataset.  Then we also do exploratory data analysis (EDA) on the given database. In this, we looked at the data frame and decided our target variables (Important Columns) based upon which we were going to conduct further analysis from that it easy to understand that how many booking have been cancelled, customer reservation status, yearly booking of different hotel, the booking and cancelled status of different hotel, market segment and many more.  After we completed the analysis of our data, we used matplotlib and seaborn libraries of python to present our analysis graphically.  Using the results from the analysis, we can understand the customer’s’ behavior and business can make key decisions regarding the customer experience they desire to deliver. |

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| **Please paste the drive link to your deliverables folder. Ensure that this folder consist of the project colab notebook, project presentation and video.** |
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