**HOTEL BOOKING CAPSTONE PROJECT SUMMARY**

RISHABH GUPTA HOTEL BOOKING CAPSTONE PROJECT

* hotel: Name of hotel ( City or Resort)
* is\_canceled: Whether the booking is canceled or not (0 for no canceled and 1 for canceled)
* lead\_time: time (in days) between booking transaction and actual arrival.
* arrival\_date\_year: Year of arrival
* arrival\_date\_month: month of arrival
* arrival\_date\_week\_number: week number of arrival date.
* arrival\_date\_day\_of\_month: Day of month of arrival date
* stays\_in\_weekend\_nights: No. of weekend nights spent in a hotel
* stays\_in\_week\_nights: No. of weeknights spent in a hotel
* adults: No. of adults in single booking record.
* children: No. of children in single booking record.
* babies: No. of babies in single booking record.
* meal: Type of meal chosen
* country: Country of origin of customers (as mentioned by them)
* market\_segment: What segment via booking was made and for what purpose.
* distribution\_channel: Via which medium booking was made.
* is\_repeated\_guest: Whether the customer has made any booking before(0 for No and 1 for Yes)
* previous\_cancellations: No. of previous canceled bookings.
* previous\_bookings\_not\_canceled: No. of previous non-canceled bookings.
* reserved\_room\_type: Room type reserved by a customer.
* assigned\_room\_type: Room type assigned to the customer.
* booking\_changes: No. of booking changes done by customers
* deposit\_type: Type of deposit at the time of making a booking (No deposit/ Refundable/ No refund)
* agent: Id of agent for booking
* company: Id of the company making a booking
* days\_in\_waiting\_list: No. of days on waiting list.
* customer\_type: Type of customer(Transient, Group, etc.)
* adr: Average Daily rate.
* required\_car\_parking\_spaces: No. of car parking asked in booking
* total\_of\_special\_requests: total no. of special request.
* reservation\_status: Whether a customer has checked out or canceled,or not showed
* reservation\_status\_date: Date of making reservation status.

The data generated every year is increasing day by day. Businesses are trying to get insights into the data and use it for decision-making. It also helps in improving the performance of the business Businesses that generate tremendous quantities of data have leverage it to recognize their modern-day performance (i.e.enterprise intelligence) additionally – and most importantly – to generate prescriptive analytics to produce their strategy toward Data science

In the Project we have gone through many of processes through which we achieved usefull outcomes the data provided to us was of hotel booking data in which we were provided with the above mentioned data-indicated by the abervations used above from the data itself we though of as a ceo and business developer we collected sorted manipulated and used it for gaining usefull outcomes we also analysed the future outcomes of circumstances that could impact our business, we analysed the employees productivity and methods to increase our sales by directly implementing and analyzing the policies.

The data is from hotel bookings done in various months of the year. It can help us to discover insight like which type of meal is preferred by the customer. From which country do the most customers arrive? Which month has the highest bookings or which month has the highest number of cancelations? The data has various columns like information for a city hotel and a resort hotel and includes information such as when the booking was made, length of stay, the number of adults, children, and/or babies, and the number of available parking spaces, among other things.

Hence we learned allot from the project thinked upon the different expects of business problems and how to get usefull insights out of them. The project let us to step out of our comfort zone and think innovatively and brainstorm for finding best solutions and insights out it.

Thanking You

Yours faithfully Rishabh Gupta