**PROJECT SUMMARY**

This is the Overview of my Project which is based on the Online Hotel Booking website Goibibo There Are following steps which I follow to complete this Project.

**WEB SCRAPING.**

Web Scraping is my first step to scrap the data from Goibibo website. I scraped data by using following python library.

* Request and bs4 BeautifulSoup

After understanding the functionality of the website I designed a database that hold all the information for each and every module in Goibibo Website. With the help of mysql workbench I created schema which represent all the attributes, constraints and relationship between the tables then did following tasks:-

* The database is completely relational with 3rd normal form.
* Created a Trigger which automatically generate the user login\_ID

And Password which every new customer login to the website.

* Created a Index for Quick access of data from the table.
* Created following Stored Procedure.

**DATA TRANSFORMATION.**

After extracting the data from Goibibo website I used excel power Query to combine all the scraped data file into a Single Data set.

**EXPLORATORY DATA ANALYSIS (EDA)**

Then did Exploratory Data Analysis to find out the insides and useful information and graphical visualization with the help of some python libraries like.

* Pandas
* Matplotlib
* Seaborn

Insides which I found while doing analysis.

* Standard Room type has the maximum listing.
* As compare to basic room type deluxe room type is 4 times more expensive and twice as compare to standard rooms.
* Hotel 'HOTEL MUSSOORIE HEIGHTS' and 'Hotel Krishna Residency' charges the maximum cancellation fee.
* These are the list of 5 hotels who takes the maximum Taxes and Fees from the customer.
* Manali City is the best rated city for hotels booking.
* Daman is the most expensive city for stay and manali is the least expensive.
* Hotel V Hitech City (Hyderabad) offer the Maximum Discount in hotel booking.

**SENTIMENT ANALYSIS**

Did Sentiment Analysis on the basis of the customers Feedbacks using TextBlob where Polarity tell us how Positive or Negative the comment is Value of Polarity is range of -1 to 1 (-ve value indicates sentiment is not good) (+ve value indicates sentiment is good).

**DASHBOARD**

After completing all the steps I Created a interactive Dashboard with the help of POWER BI.