

DATA ANALYSIS PORTFOLIO

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Presentations are communication tools that can be used as lectures, speeches, reports, and more. **This is my portfolio as an aspiring Data Analyst.**





LETS GET STARTED 

WELCOME MESSAGE

GREETINGS !

This is a brief description about my professional background. You can contact me at :
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ABOUT ME

- I have completed my bachelor's in Electronics and Communication Engineering with a focus on data analytics along with a cgpa of 7.9
- I did courses from Coursera on SQL, Python and Data Science. Participated in internships and worked on real world projects to gain hands-on experience in data analysis.
- Proficient in using tools such as Excel, Tableau, Power BI and SQL for data manipulation and visualization.
- Developed strong analytical and problem-solving skills through academic coursework and projects.
- Possess good communication and teamwork skills, which are essential for working with cross-functional teams and presenting insights to stakeholders.
- I did my training on Machine Learning from Azeotropy IIT Bombay. I was a Data Analyst trainee at Stige.
- From there I got some basic knowledge on Data Analysis. Currently I am a Data Analyst trainee at Trainity.
- I have worked on several Data Analysis Projects, being a fresher, I am adaptive and a quick learner. Also, my theoretical knowledge is good.
- I am open for practical work so that I can learn more and use my current skills.

CONTENT LIST

01

PROJECT's APPROACH

In this pdf I will be explaining my data analysis project's short approach

02

DESCRIPTION

Short description of each project, like problem statement and business understanding

03

INSIGHTS

What insights I gained from each project in short

04

LINKS TO FOLLOW

Dataset, solved sheets, ppt/pdf file for each project, code files, along with detailed video explanation

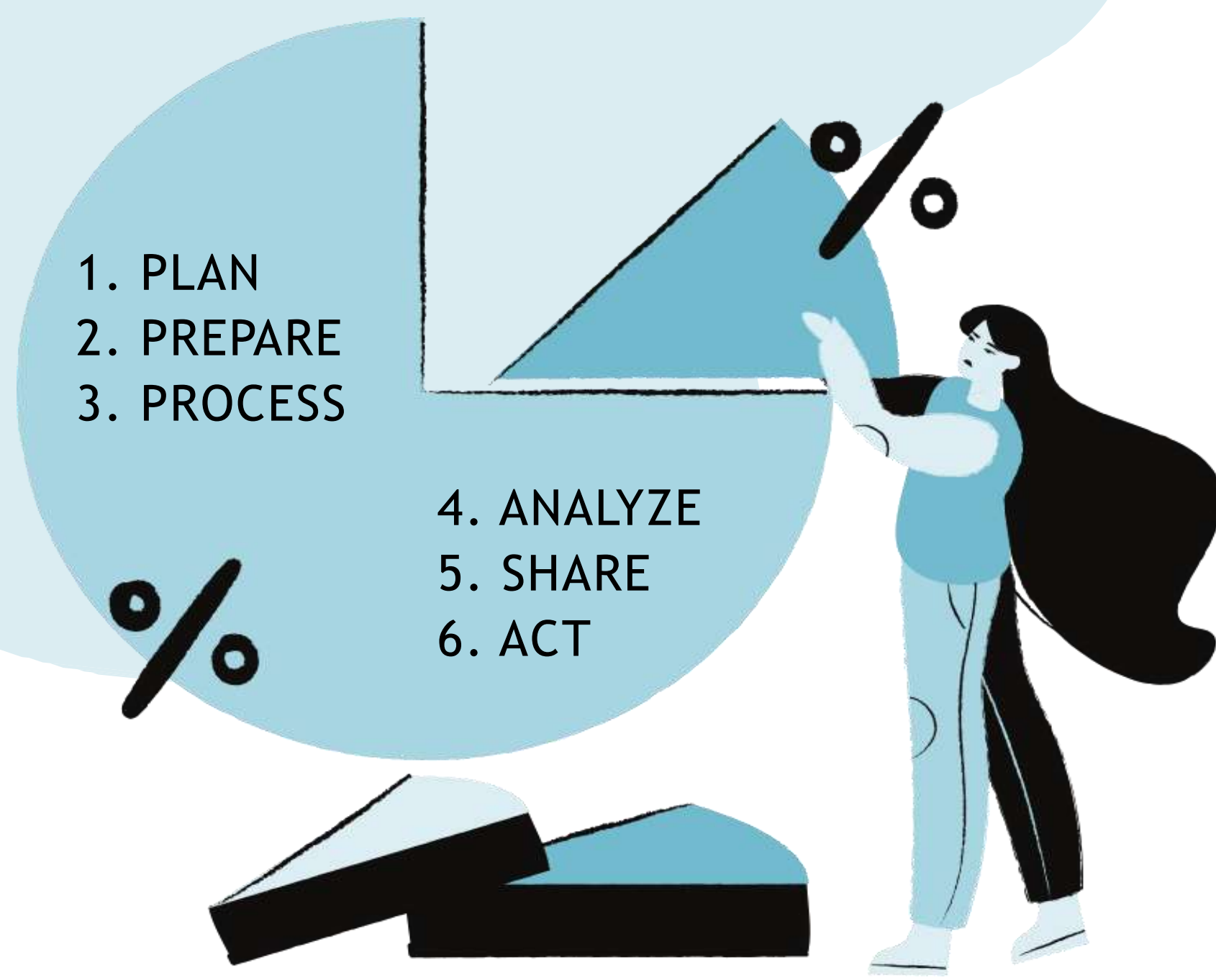
05

CONCLUSION

Learnings from each project, portfolio project link and feedback form for improvement



PROJECT 1 : DATA ANALYTICS PROCESS



1. PLAN
2. PREPARE
3. PROCESS

4. ANALYZE
5. SHARE
6. ACT

DESCRIPTION

We use Data Analytics in everyday life without even knowing it. For example : Going to a market to buy something.

WHAT TO DO ?

Your task is to give the example(s) of such a real-life situation where we use Data Analytics and link it with the data analytics process

APPROACH

Admitting to a college with six steps process of data analysis. This is real life example I thought of in which the six steps of data analysis are happening.

INSIGHTS

Used my own imagination for giving this real-life solution
For complete explanation visit : [Project 1](#)

PROJECT 2 : INSTAGRAM USER ANALYTICS



This project is about generating insights from the raw database of Instagram users. Provide a detailed report solutions for Marketing Team & Investors



APPROACH

Create the database name as ig_clone. Used SQL queries to get desired output.



INSIGHTS

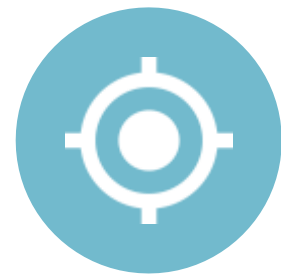
Found 5 oldest users , users who never posted, Top 5 hashtags etc
Used SQL joins, statements and functions for solution



LINKS TO FOLLOW
[Project 2](#)

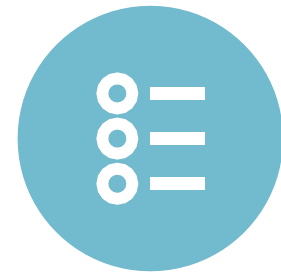


PROJECT 3 : OPERATION ANALYTICS & INVESTIGATING METRIC SPIKE



DESCRIPTION

Operation Analytics is a part of business analytics and Investigating Metric spike is an important part of Operation Analytics. As a Data Analyst we must be able to understand or make other teams understand questions like- Why is there a dip in daily engagement? Why have sales taken a dip?



APPROACH

We are given two datasets that includes user table, events, email events and job data. Using MySQL workbench, we must create a database by using these datasets provided to us. I have spent some time to understand the tables given and then I used my SQL knowledge to meet the business requirements.

INSIGHTS

Gained knowledge on Advance SQL functions by solving tasks for both case studies. Like Number of jobs reviewed over time, Weekly user engagement, percentage share of language in 30 days etc.

LINKS TO FOLLOW

[Project 3](#)

PROJECT 4 : HIRING PROCESS ANALYTICS

Hiring Process Analytics is the fundamental and the most important function of a company. Here, the MNCs get to know about the major underlying trends about the hiring process.



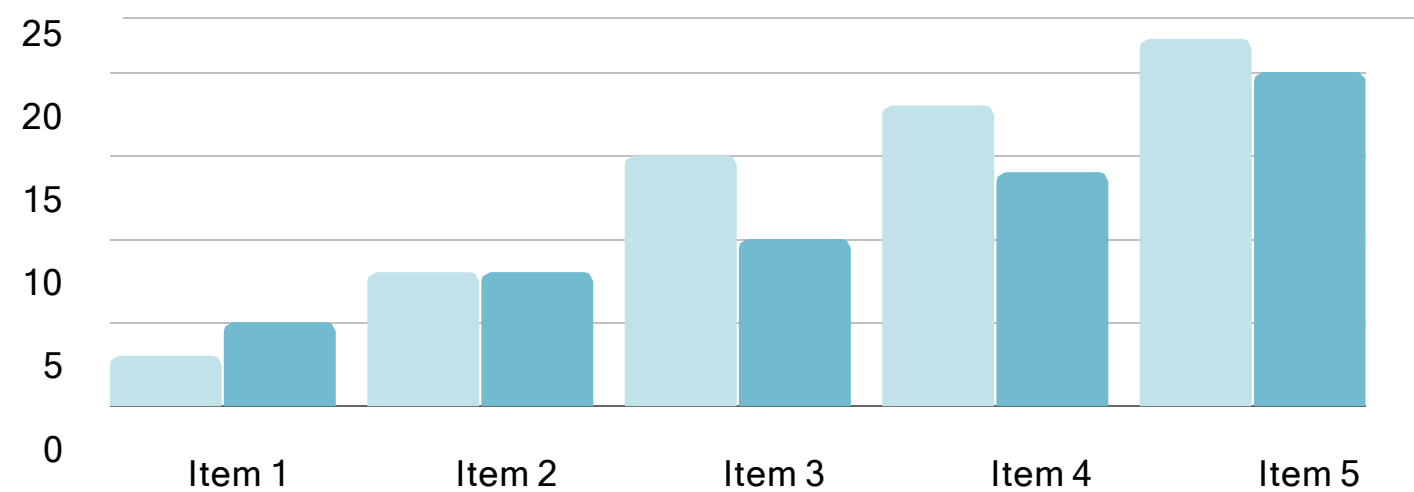
APPROACH

In this project we are going to perform Exploratory Data Analysis(EDA) where we will try to summarize, visualize and identify missing values of the data which will help us to answer the various questions related to data which are asked.



INSIGHTS

Gained knowledge on how to use excel formulas. Plotted different types of charts for better insights. Average salary offered is around 50 K, Most people are working in Operations Department etc



LINKS TO FOLLOW

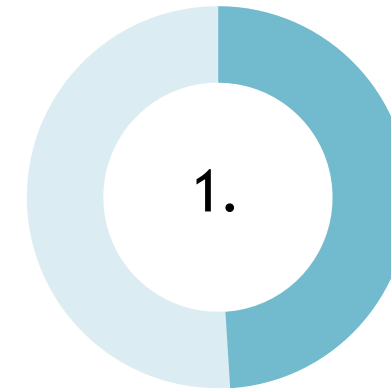
[Project 4](#)



PROJECT 5 : IMDB MOVIE ANALYSIS

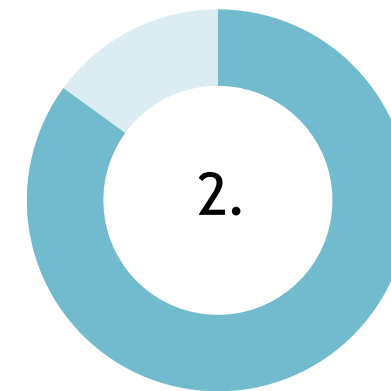


LINKS TO FOLLOW
[Project 5](#)



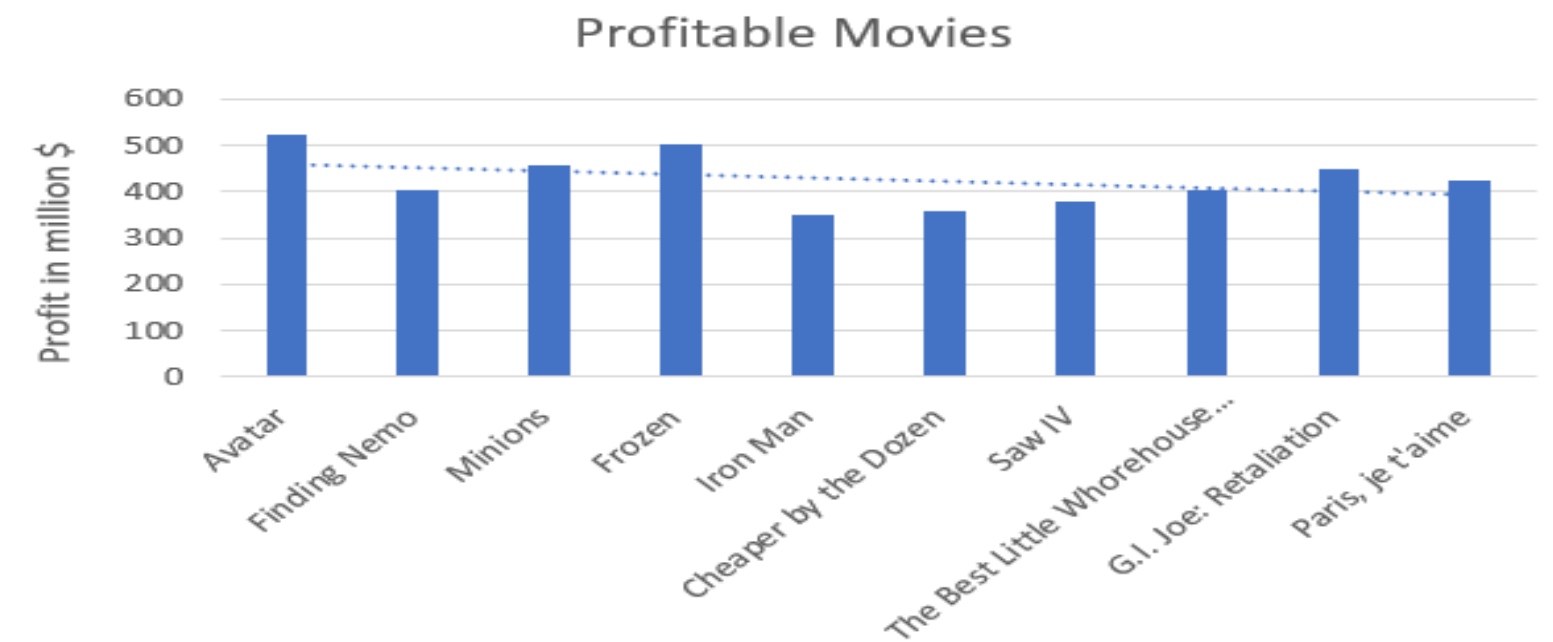
DESCRIPTION

A dataset is given having different details about IMDB movies. Explore the dataset & use root cause analysis



APPROACH

Cleaned data using power Query editor
Filtered the data using tables
Created required pivot tables & charts



INSIGHTS

PROJECT 6 : BANK LOAN CASE STUDY

DESCRIPTION

Use EDA in a real business case scenario and find out which customers are taking loans and track the data. Show factors that are financially healthy for the bank and customers.

LINKS

[Project 6](#)



APPROACH

Understood the problem statement
Used google collab and imported required libraries
Completed the required tasks using my knowledge of python

INSIGHTS

Data cleaning, checking for null values and dropping them
Found outliers and data imbalance ratio
Univariate & Bivariate analysis using charts
Correlational Insights

PROJECT 7 : IMPACTS OF CAR FEATURES ON PRICE AND PROFITABILITY

-5%

DESCRIPTION

How can a car manufacturer optimize pricing and product development decisions to maximise profitability while meeting consumer demands



APPROACH

Explored the dataset and got a basic understanding of business requirements
Used my excel knowledge for solutions



INSIGHTS

For solving given tasks I created pivot tables and charts and got knowledge on showing data with visuals
Created an interactive dashboard



LINKS TO FOLLOW

[Project 7](#)



PROJECT 8 : ABC CALL VOLUME TREND



DESCRIPTION

ABC is a call centre. It has customer experience team consists of professionals who analyse customer feedback. It is required to analyse the data & help company answer some business questions



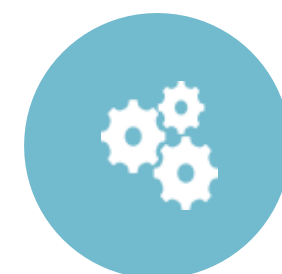
APPROACH

Explored the dataset and got a basic understanding of business requirements
Used my excel knowledge for solutions



INSIGHTS

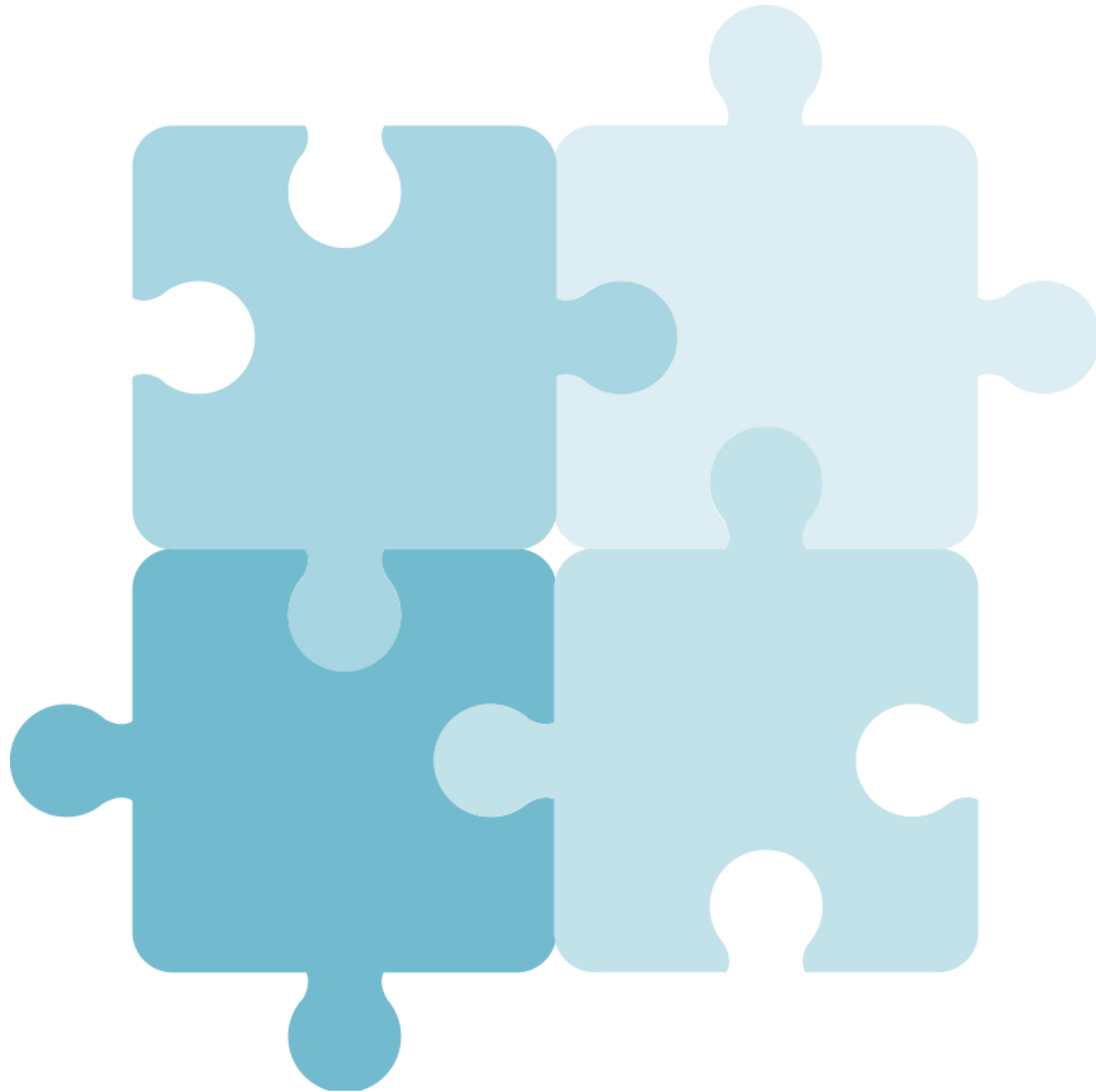
For solving given tasks I created pivot tables and charts and got knowledge on showing data with visuals



LINKS TO FOLLOW

[Project 8](#)





CONCLUSION

WHAT I HAVE GRASPED

- 6 Step Data Analysis Process
- How to use advance SQL & Excel concepts in real business problems
- Analyse huge datasets in python
- Data visualisation to gain meaningful insights
- Concepts of Operation Analysis & Investigating Metric
- Knowledge on HR analytics & Risk Analytics
- Predictive Analysis on Car Features
- Call Volume Trend for Customer Experience Team & customer support
- Google surfing for the right questions and more understanding about a particular topic

PORTFOLIO PROJECT LINK : [Portfolio](#)

Please fill this form for your valuable feedback:

[Google Form](#)