

SAPTASWA BASU

Kolkata, West Bengal

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Education

Institute of Engineering and Management (8.35 CGPA)

2018 – 2022

Bachelor of Technology in Electrical Engineering

Kolkata, West Bengal

Projects

RevaAI | *Data Analysis, ML Model(Catboost), Tailwind, Flask* | [🔗](#) | [🌐](#)

Jan 2022 - April 2022

- It is a web app that helps to determine the forecasting of rain on a different location for the next day based on diff weather conditions
- Performed data cleaning, data analysis and apply **Cat-boost** ML algorithm to get most accurate results, the accuracy score of catboost classifier model is **around 0.864** which is higher than rest of other algorithms.
- Made a web App with **Tailwind** and **Flask** and then deploy it to **Heroku** platform using Gunicorn to perform the operation.

Power BI Projects | *SQL, Power-Query, DAX*

2022 - 2023

Supply Chain Insights in FMCG Domain : [🌐](#)

- Generate insights to identify why customers did not extend the annual contract due to service issues by performing Data cleaning, merging with the help of **textbfSQL** and **textbfPower-Query**, and generating the dashboard.
- Build the dashboard covering different **KPIs (OT%, IF% and OTIF%)** to track service level of the business.
- These reports can potentially **save around 20%** of their investment and also it will help to **increase the customer retention numbers** by a significant percent after issues have been rectified that shown through the dashboard.

Hardware Sales Insights :

- Generate insights for a Computer Hardware Manufacturing company to solve the issues in terms of their sales by performing **Data cleaning**, **Data merging** with the help of **SQL and Power-Query** and then generate the dashboard.
- These reports could help in increasing the revenue by at least **5%-10%** in the next quarter.

InsureDoc | *Pandas, Matplotlib, ML Regressor Model* | [🔗](#)

Sept 2021

- It is used to determine the medical insurance expenses based on every persons health characteristics, depending upon that the expense will vary.
- Perform data cleaning, Exploratory Data Analysis(EDA) using **pandas, matplotlib, seaborn** etc
- In this project we used **regression model** which gives R-squared value that is slightly **above 70%** for our test data

Codebasics | **SQL Challenge** | *SQL, Power Query, Power BI, MS power Point* | [in LinkedIn](#)

Jan 2023

- Complete the challenge by querying the **ad-hoc requests** into **MySQL** to find relevant outputs.
- Then used **PowerBI** for visualization,i.e to gain key insights from those outputs that eventually helped to understand the business key factors even more.
- Prepared the presentation to share the output and key findings through visualization to the top-level management.

Technical Skills

Languages: Java, HTML/CSS, SQL

Technologies/Frameworks: Pandas, Numpy, Beautifulsoup, Scikit-learn, Matplotlib, Machine Learning, MySQL, MS Excel, React, Firebase, Flask, Matlab, Tailwind, JavaScript, Bootstrap, Data Scraping, Data Modelling, OOP Concepts

Visualization skills: PowerBI, Matplotlib, Seaborn, Plotly

Developer Tools: VS Code, Jupyter Notebook, Heroku, Github

Achivements And Responsibility

- Energy Conservation and Automation Challenge(ISHRAE ,IEM)-Secured 3rd Position.
- I was a core member of the IEEE and IEI student chapter, and conducted and attended industrial visits along with the team .
- Participated in PowerBI resume challenge by Codebasics and made interactive dashboards.
- Achieved 5* Gold Badge in SQL at HackerRank .