SHAMBO CHOWDHURY

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EDUCATION

Indian Institute of Technology (IIT), Kharagpur　　　　　　　　　　　　　**2023　2027**
B.Tech - Chemical Engineering　　　　　　　　　　　　　　　　　　　*Kharagpur, West Bengal*

TECHNICAL SKILLS

Languages	Python, C, SQL, Bash, Latex
Data Science	Pandas, NumPy, SciKit-Learn, Matplotlib, Seaborn, Requests, Urllib3, BeautifulSoup4
MLOps	ZenML, PyArrow, MLflow, Streamlit
DBMS	PostgreSQL, MongoDB, MySQL
Hosting	AWS Elastic Beanstalk, Microsoft Azure, Azure App Service, Heroku
Frameworks	Flask, Web Scrapping, REST-API, HTTP requests,
OS Platforms	Windows (7,8,8.1,10,11), Ubuntu (20.xx,22.xx, 22.xx), Debian, MacOS X, Chrome-OS
Others	Discord/Telegram Bot development, Git and Github, CI/CD, Jupyter Notebook, Repl, VS Code, IntelliJ, Google Clouds model deployment

PROJECTS

Valo-shop ⎘ | Python, PostgreSQL, REST-API, Hosting services　　　　　　　**2022-Present**
- Developed a Discord bot that allows users to view their Valorant in-game inventory along with many other features from their discord
- BOT is used by over **2.5k+** servers and have grown expotentially in just 1 year
- Implemented things like **API calls, Database management, Hosting and many more.** and also tackled problems like **Rate Limiting, API Cookie Handling, User Security, Pipeline Issues etc**

Vstat ⎘ | Python, PostgreSQL, MongoDB, Amazon-AWS-EC2, REST-API　　　　　**2022-Present**
- Developed a Discord bot that allows user to view their **stats, matches, leaderboard, skins, agents, maps, weapons** and many other features from their discord.
- Bot is verified by **top.gg** ⎘**1.7k+ upvotes** and is used in over **1.3k+ servers**

Customer Satisfaction Predictor ⎘ | MLOps, Mlfow, ZenML, Streamlit　　　　**2024**
- Designed production grade end-to-end Data Science project that predicts the customer satisfaction based on a given dataset.
- Implemented **ZenML** for pipeline management, **MLflow** for model tracking and **Streamlit** for model deployment.
- Resolved problems like **Data Cleaning, Data Preprocessing, Model Evaluation, Model Training, Model Deployment** etc.

Advertising Sales Prediction (OLS Regression Challenge) ⎘ | scikit-learn, pandas, Matplotlib　**2024**
- Implemented a Sales Prediction ML model, and solved the OLS Regression Challenge ⎘.
- Designed proper structure like **Data Cleaning, Data Preprocessing, Model Evaluation, Model Training** etc.
- Achieved **90% accuracy** in the challenge.

Linear Regression Model (without SK-learn) ⎘ | Python, Matplotlib, Linear Algebra　**2023**
- Developed a Linear Regression Model from scratch without using any **ML libraries** like **scikit-learn**.
- Used it predict Flipper lenght of penguins based on their body mass.
- Achieved **80% accuracy** in prediction

Flipkart Review Scrapper ⎘ | Python, beautifulsoup4, Flask, Requests　　　　　**2023**
- Developed a **full stack** project of flipkart Review Scrapper that scrapes the reviews of all the products available in flipkart based on the search, and provide it in easy readable tabular format
- Project allows people to easily decide which product to buy based on the reviews
- Implemented **Flask** for website and **beautifulsoup4** for web scrapping amd Deployed the website on **Vercel**

ENGAGEMENTS

Hactoberfest ⬀   **2021,2022,2023**

- Active participant of Hactoberfest and have **contributed** as well as **maintained** serveral big **open-source** projects

Google Cloud Skill Boost Challenge ⬀   **2023**

- Participated in The Arcade and successfully completed different challenges based on **GenAI**, **LLM**,**Pub/Sub** etc
- Earned **10 points** in less than month starting from scratch.

OTHERS

Freelancing   **2023-Present**

- Worked with a client in question papers designing
- Gained proficiency in relevant software tools or applications for question paper design, such as Microsoft Word, LaTeX

Awaaz ⬀   **2023-2024**

- Been a part of Student Media body of IIT Kharagpur and learnt several skills like **Video editting**, **Content Writing**,**Communication skills** etc
- Lead a team of 3 video editors and released teaser video for one of the biggest event called **Panch Parmeshwar** ⬀

EXTRACURRICULAR

- Keen towards Photography and video-graphy, and have worked on several video editing projects
- Been a part of **Academy of Classical and Folk Arts** ⬀