SHAMBO CHOWDHURY

Burdwan, West Bengal

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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
Data Science	Data visualization & wrangling, Statistics, ML modelling
MLOps	ZenML, MLflow, Streamlit, Dagshub
DevOps	CI/CD, Github Actions, AWS EC2, GCP GKE
DBMS	PostgreSQL, MongoDB, MySQL
Hosting	Azure App Service, Heroku
Frameworks	Flask, REST-API
Others	Discord/Telegram Bot development, Web Scrapping

PROJECTS

Predictive Maintenance Model ⬈ | Mlflow, Streamlit, Dagshub   **2024**
- Built a Predictive maintenance model to predict sensor device failure based on metrics
- Achieved a model accuracy of 93% on the test dataset ⬈
- Implemented Data wrangling, Model Training and Evaluation, Pipelines, Deployment.
- Demo ⬈ | Model Tracking ⬈

Customer Satisfaction Predictor ⬈ | Mlfow, ZenML, Streamlit   **2024**
- Developed an ML model to predict customer satisfaction for a product on a scale of 0-5
- Implemented ZenML for pipeline management, MLflow for model tracking and Streamlit for model deployment.
- Optimized training dataset by Data Augmentation, Data Balancing, Hyperparameter Tuning etc.

Advertising Sales Prediction ⬈ | scikit-learn, pandas, Matplotlib   **2024**
- Implemented a Sales Prediction ML model, and solved the OLS Regression Challenge.
- Structured the code for data cleaning, preprocessing, model training, and evaluation.
- Achieved a model accuracy of 90% on test dataset.

Valo-shop ⬈ | PostgreSQL, REST-API, Hosting services   **2022-Present**
- Developed a Discord bot that allows users to view their Valorant in-game inventory and store from their discord
- BOT is used by over 2.8k+ servers and have grown exponentially in just 1 year
- Implemented API calls, Database management, Hosting etc
- Resolved errors based on Rate Limiting, API Cookie Handling, User Security, Pipeline Issues etc

Vstat ⬈ | PostgreSQL, MongoDB, Amazon-AWS-EC2, REST-API   **2022-Present**
- Developed a Discord bot for Valorant that displays user stats, matches, leaderboards, skins, agents, maps, and weapons
- Bot is verified by top.gg ⬈ with 1.7k+ upvotes and is used in over 1.3k+ servers

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** ⬈