

# 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, Statistical analysis, ML modelling |
| MLOps        | ZenML, MLflow, Streamlit, Dagshub                                  |
| DevOps       | CI/CD pipeline, Github Actions, AWS Elastic Beanstalk, 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** [↗](#) | [Mlflow](#), [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

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### 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

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### 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

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