

# SHAMBO CHOWDHURY

Burdwan, West Bengal

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## EDUCATION

Indian Institute of Technology (IIT), Kharagpur

B.Tech - Chemical Engineering

2023 2027

Kharagpur, West Bengal

## TECHNICAL SKILLS

Languages	Python, C, SQL, Bash, Latex
Data Science	Pandas, NumPy, SciKit-Learn, Matplotlib, Seaborn, BeautifulSoup4
MLOps	ZenML, PyArrow, MLflow, Streamlit, Dagshub
DevOps	CI/CD pipeline, Github Actions, AWS, GCP
DBMS	PostgreSQL, MongoDB, MySQL
Hosting	AWS Elastic Beanstalk, Azure App Service, Heroku
Frameworks	Flask, Web Scrapping, REST-API
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, Repl, IntelliJ

## PROJECTS

Predictive Maintenance Model | MLflow, Streamlit, Dagshub

2024

- Developed a End to End machine learning pipeline and model for predictive maintenance, which can detect the failure of a machine before it actually fails.
- Performed EDA and achieved an accuracy of **93%** in the model
- Implemented everything end to end like **Data Cleaning, Data Preprocessing, Model Evaluation, Managing Pipelines, Model Training, Model Deployment** etc.
- Demo | Model-tracking

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.

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

## 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 [↗](#)