



DEBMALYA SUR

- Software Developer
- Web Application Developer
- Backend Engineer
- Machine Learning Enthusiast

ACADEMIC HISTORY

IIT Dhanbad

— M.Tech in Computer Science & Engineering
August 2022 - June 2024

Government College of Engineering & Ceramic Technology, Kolkata

— B.Tech honors in Computer Science & Engineering
August 2018 - June 2022
Graduated with a 9.87 CGPA

TECHNICAL SKILLS

- C, C++, Python, SQL

LIMITED EXPOSURE

- HTML, CSS, JS, Bootstrap, Flask, Django, MongoDB, SQLite3, Firebase

ACHIEVEMENTS

- GATE CS AIR 405 on 2022.
- Secure 127th rank in SEAMO, 2017 from South East Asia region.

CONTACT DETAILS

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GitHub: [@surdebmalya](https://github.com/surdebmalya)

Portfolio: <https://surdebmalya.github.io/>

LinkedIn: [@debmalaya-sur](https://www.linkedin.com/in/debmalya-sur)

Blog: <https://surdebmalya.hashnode.dev/>

MY PROJECTS

• Full Scale Web Application Development

A. DJ CHAT - REAT TIME CHAT WEB APP WEB VIEW

- It's a Full Scale Web Application for Real Time Chat Application
- Used Django for backend, AJAX has been used for user-friendly non-reloadable interface
- For database I have used sqlite3
- In the front-end I have used bootstrap

B. BAUD NEWS WEB VIEW

- It's a user-specific News Web Application
- Build front-end with bootstrap and Flask
- Backend logics are written in Python
- Used REST-APIs
- Used SMTP Server to sent verification mails

• Desktop Application Building

A. STUDENTS' REGISTRATION SYSTEM GITHUB | YOUTUBE VIDEO

- It's a Desktop Application to register a student into a local database
- Build front-end with Tkinter
- Back-end logics are written in Python
- Used SQLite3 for local database management
- Registration Cards can also be generated using this application

B. COVID-19 DESKTOP APPLICATION GITHUB | YOUTUBE VIDEO

- This desktop application was made to keep a track on COVID-19 cases
- I made front-end with the help of Tkinter
- Python is used to write back-end logics
- I did Web Scrapping to collect data and make those data visible with table

• Machine Learning Projects

A. BREAST CANCER DETECTION GITHUB | WEB VIEW

- This is a classification problem
- Got **96.49%** accuracy by Random Forest Classification
- Made usable web application using streamlit

B. MRI & ALZHEIMERS CROSS SECTION ANALYSIS GITHUB

- This is a machine learning Regression problem
- Got **0.145833** mean absolute error by XGBRegressor

• Game Development Projects

A. MEMORIZING POWER GAME GITHUB | YOUTUBE | BLOG ARTICLE

- Used pygame, Tkinter
- SQLite3 has been used to store score

B. SPACE SHIP GAME GITHUB | YOUTUBE | BLOG ARTICLE

- Used pygame for back-end logics
- Downloadable version is made

• Discord Bot Making Using Python

A. HEART OF BOT

- It generates random images of user given size, transfers it into sketch
- It detects all edges of a picture, turns an image into black & white, gives news

B. CYKA BOT

- In this joint project, I had made the translation feature of the bot
- Here I also implement the QR code generation feature

• Deep Learning Projects

A. CAT OR DOG RECOGNIZER GITHUB | WEB VIEW | YOUTUBE VIDEO

- This is a classification problem to classify cat and dog
- Made a sequential convolutional neural network (CNN)

B. FRUIT FRESHNESS MEASUREMENT YOUTUBE VIDEO | B.TECH FINAL YEAR PROJECT

- Here we did both classification & regression tasks
- We have used custom classification model and ridge regressor

• Framework and Data Structures

A. AKDS-FRAMEWORK GITHUB

- Made major changes on Array, Queue portion
- Fixed bugs on Graph data structure

B. DATA STRUCTURE IMPLEMENTATION GITHUB

- Implement various algorithms and data structures
- Doing coding questions from leetcode