DEBMALYA SUR

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

ACADEMIC HISTORY

Government College of Engineering & Ceramic Technology, Kolkata
— B.Tech honors in Computer Science & Engineering
Aug 2018 - MAY 2022
9.86 CGPA till 7th semester

TECHNICAL SKILLS

- *C, C++, Python, SQL*

LIMITED EXPOSURE

- *HTML, CSS, Bootstrap, Flask, SQLite3, Firebase*

ACHIEVEMENT:

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

CONTACT DETAILS:

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PROJECTS

• Full Scale Web Application

A. BAUD NEWS
WEB VIEW

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

B. FRIENDSHIP METER
GITHUB | WEB VIEW

- It's a Web Game Application to measure the strength of friendship
- Front-end is made with bootstrap and Flask
- Back-end logics are written in Python
- Used REST-API to store generated result images

• 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 SECTON 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

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)

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

AKDSFRAMEWORK
GITHUB

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

DATA STRUCTURE IMPLEMENTATION
GITHUB

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