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*

ACHIEVEMENTS

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

CONTACT DETAILS

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MY PROJECTS

Full Scale Web Application Development

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 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*