



DEBMALYA SUR

Software Developer,
Machine Learning
Enthusiast, Mathematician.

ACADEMIC HISTORY

Government College of Engineering &
Ceramic Technology, Kolkata
— B.Tech honors in Computer Science &
Engineering
Aug 2018 - MAY 2022
9.86 CGPA till 6th semester

TECHNICAL SKILLS

- C Language, SQL

LIMITED EXPOSURE

- HTML, CSS, Python, Flask, SQLite3, Firebase

ACHIEVEMENT:

- GATE AIR 2492 on 3rd Year.
- 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 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
- It translates sentences, gives top 5 news, generates QR code
- This is an invite able discord bot, named "Heart of Bot#0949"

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
- In this bot, I jointly implement an imaginary banking system
- This is an invite able discord bot, named "сука блять#6880"

• Deep Learning

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)

• Framework

AKDSFRAMEWORK GITHUB

- Made major changes on Array, Queue portion
- Create corresponding test cases
- Fixed bugs on Graph data structure