

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
9.83 CGPA till 4th semester

CORE STRENGTHS

- Language: Python, C
- Web: Flask, Bootstrap, Streamlit
- <u>Database</u>: SQL, SQLite, Firebase
- <u>Machine Learning</u>: Numpy, Pandas, Matplotlib, Seaborn
- Strong Communication Skills

CONTACT DETAILS:

Email: surdebmalya2001@gmail.com

GitHub: @surdebmalya

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

LinkedIn: @debmalya-sur

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

ACHIEVEMENT:

- GATE AIR 2492 on 3rd Year.
- Secure 127th rank in <u>SEAMO</u>, 2017 from South East Asia region.

PROJECTS

• Full Scale Web Application

A. BAUD NEWS GITHUB | 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
- $\hbox{-} \textit{Used REST-API to store generated result images}\\$

• Desktop Application Designing

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 get data

Machine Learning

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

Deep Learning

CAT OR DOG RECOGNIZER GITHUB | WEB VIEW | YOUTUBE VIDEO

- This is a classification problem to classify cat and dog
- Made an sequential convolutional neural network (CNN)
- Made usable web application using streamlit

Discord Bot

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"

Contributes in Framework

AKDSFRAMEWORK GITHUB

- Contributes on Queue and Graph data structure