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*
- *Database: SQL, SQLite, Firebase*
- *Machine Learning: Numpy, Pandas, Matplotlib, Seaborn*
- *Strong Communication Skills*

CONTACT DETAILS:

Email: surdebmalya2001@gmail.com
GitHub: @surdebmalya
Portfolio: https://surdebmalya.github.io/
LinkedIn: @debmalya-sur
Blog: https://surdebmalya.hashnode.dev/

ACHIEVEMENT:

- *GATE AIR 2492 on 3rd Year.*
- *Secure 127th rank in SEAMO, 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
- 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