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

CORE STRENGTHS

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

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 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*
- *It translates sentences, gives top 5 news, generates QR code*
- *This is an invite able discord bot, named "Heart of Bot#0949"*

B. СУКА 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*