



# Debmalya Sur

MTech - Computer Science & Engineering - IIT (ISM), Dhanbad



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## ORGANIZATIONAL PROJECTS

- **Fruit Freshness Measurement —**  
*Python | Flask | REST API* [YOUTUBE VIDEO](#)
  - This was my BTech Final year project with a team of 4 members led by me
  - Here we did both classification & regression tasks
  - We have followed Iterative Enhancement Model
  - For classification task, we implement our custom classification model where we have achieved an accuracy of 95% over the test data
  - For the regression task, we have used the ridge regressor and achieved the RMSE of 0.04

## ACADEMIC HISTORY

**Indian Institute of Technology (ISM), Dhanbad**  
— Master of Technology in Computer Science & Engineering  
AUGUST 2022 - JUNE 2024

**Government College of Engineering & Ceramic Technology, Kolkata — Bachelor of Technology in Computer Science & Engineering**  
AUGUST 2018 - JUNE 2022 | Graduated with CGPA 9.87

## SKILLS

- **Technical Skills:** C++, C, Python, SQL, DSA, Problem-solving
- **Limited Exposure:** HTML, CSS, JS, Bootstrap, Flask, Django, MongoDB, SQLite3, Firebase

## ACHIEVEMENTS

- I do write books in the free time. One of my books is online: [My Books](#)
- GATE CS AIR 405 on 2022
- Secure 127<sup>th</sup> rank in [SEAMO](#), 2017 from South East Asia region

## PROFILES

- **GitHub:** @surdebmalya
- **Portfolio:** [surdebmalya.github.io](#)
- **LinkedIn:** @debmalya-sur
- **Leetcode:** @surdebmalya2001
- **Interviewbit:** @debmalya-sur
- **Blog:** @surdebmalya

## POSITIONS OF RESPONSIBILITY

- I was the leader of my BTech Final year project and successfully able to make the coordination between the members of my team and delivered the project before time
- Lead 3-4-member team in various Hackathons

## PERSONAL PROJECTS

- **DS Chat — Real Time Chat Web App**  
*Django | SQLite3 | Bootstrap* [WEB VIEW](#)
  - Full Scale web application for real time chat application
  - Used Django for backend development, AJAX has been used for user-friendly non-reloadable interface
  - For in-server database I have used sqlite3
- **Baud News — User-Specific News Web App**  
*Flask | REST API | SMTP Server* [WEB VIEW](#)
  - Implemented login system where user can create own accounts and on the basis of their preferences the news will be shown & the data is updatable
  - Used SMTP server to send verification emails
  - For news updation, I have used Cronjob which updates news JSON file in every 2 hours
- **Students' Registration System — Desktop**  
*App for college management usage*  
*Tkinter | SQLite3* [GITHUB](#) | [YOUTUBE VIDEO](#)
  - In this desktop application, I have implemented CRUD operations where the data will be stored into the local database
  - One can also download or generate the registration card of a particular student or all of the class
  - The logics are written in python scripts, the front-end is developed using Tkinter module and the database is managed with SQLite3
- **Breast Cancer Detection — Classification**  
*problem with web application*  
*Machine Learning | Streamlit* [GITHUB](#) | [WEB VIEW](#)
  - In this project I have trained a classification model which will predict the tissues are BENIGN or MALIGNANT on basis of certain data inputs
  - Got 96.49% accuracy by Random Forest Classifier
  - I have made a usable front-end with streamlit
- **Heart of Bot — A efficient bot for multi-purpose usage**  
*Machine Learning | Deep Learning | Web Scrapping*
  - In this project I have made a discord bot with various functionalities, like generate random images, convert a given image into black and white image, fetching news etc.
- **DSA Implementation**  
*C++ | Python | C* [GITHUB](#)
  - In this repository I have implemented various algorithms and data structures from scratch
  - I have solved coding questions from different coding platforms
  - I have solved the OOP concepts in C++ language