

Mayukh Saha

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EDUCATION

Manipal Institute of Technology — CGPA: 8.04

Bachelor of Technology in Computer Science, Specialization in Artificial Intelligence

Bengaluru, KA

Jul. 2022 – Jul 2026

PROJECTS

Lumina | CMake, C++, Git, Github — [Github](#)

Sept 2024 – Oct-2024

- Object-Oriented implementation of a basic graphics engine with raytracing support in Cmake.
- Lumina can simulate cameras, diffusion, defocus blur reflection and refraction while calculating light paths.

az-rmbg | Python, Flask, Docker, Azure App Services, Git, Github — [Github](#), [Demo](#)

Aug 2024

- Web Application that removes backgrounds from images using rembg, a U2-net based pre-trained segmentation model.
- Built using python and flask. Deployed using Docker and Azure app services.
- Drag and drop feature, requiring 2x less memory and storage to render return images compared to Meta's SAM-b.

AI for medical Diagnosis, Prognosis and Treatment |

Python, Tensorflow, Jupyter, LLMs, Keras

Nov 2023 – Jan 2024

- Set of Projects part of DeepLearning.AI's courses
- Diagnosing diseases from x-rays and 3D MRI brain images.
- Predicting patient survival rates more accurately using tree-based models.
- Automation of labeling medical datasets using BERT LLM.
- Estimating patients' treatment effects using data from randomized trials.

POSITIONS OF RESPONSIBILITY

Competitive Coding Lead

Nov 2022 – Dec 2023

Codex Coding Club

MIT, Bengaluru

- Led the competitive programming department of Codex, the biggest club in the university campus.
- Hosted multiple competitive coding contests, which received overwhelmingly positive responses.
- Contests involved setting up questions, moderation and fixing technical issues during the event

Design Lead

Oct. 2022 – Oct 2023

Neura AI Club

MIT, Bengaluru

- Designed the brand identity for the Neura AI club, one of the largest student clubs in the college.
- The lead designer for all projects involving the club, including a 2-day Industry Conclave meet, which involved 8 guest speakers from the industry.

TECHNICAL SKILLS

Languages: Python, C/C++, Bash, Matlab, Java, SQL, JavaScript, HTML/CSS, Rust

Frameworks: Sveltekit, Express.js, Flask, Node.js, React.js

Developer Tools: Git, Github, Docker, Microsoft Azure, VS Code, Eclipse

Libraries: Pandas, NumPy, Matplotlib, Tensorflow, OpenCV, SciKit Learn

CERTIFICATIONS

DeepLearning.AI : AI for Medicine

DeepLearning.AI : TensorFlow Developer

DeepLearning.AI : Mathematics for Machine Learning and Data Science

LearnQuest : Oracle SQL Databases