

Debabrata Ghosh

Kolkata | P: 7439502673 | debabratag542@gmail.com | [GitHub](#) | [LinkedIn](#)

EDUCATION

Institute of Engineering and Management

B.Tech in Electrical and Electronics Engineering

Saltlake, Kolkata

Expected 2026

EXPERIENCE

Institute of Engineering and Technology (IET)

Core Member

Kolkata, India

2024 - Present

- Contributed to technical and organizational activities as part of the IET core committee.
- Collaborated with team members to enhance student engagement and technical knowledge dissemination.

PROJECTS

Yuze

2024

- Developed a system to process satellite imagery from WMS services, applying AI-based frame interpolation (using the FILM model) to generate smooth video animations of weather patterns.
- Optimized data retrieval and storage by incorporating Cloudinary to manage slow retrieval issues from MOSDAC.

Lost Horizon: A Visual Novel

2024

- Created during the NASA Space Hackathon using Ren'Py.
- Developed an engaging storyline about a nameless teenager navigating life and space adventures.

Navigation Visor: AR Glasses for Cyclists and Motorcyclists

Ongoing

- Developing augmented reality (AR) glasses that provide real-time navigation assistance for cyclists and motorcyclists.
- Optimized data flow for seamless, low-latency GPS updates with efficient power usage

RESEARCH PUBLICATIONS

Optimized Cost Effective and Environment Friendly Aluminium Alloy Corrosion Inhibitor

2024

- Developed a machine learning-based approach to identify cost-effective and environmentally friendly aluminium alloy corrosion inhibitors.
- Published in Springer's Information Systems Engineering and Management series

SKILLS SUMMARY

- Programming Languages:** Java, C++, Python, JavaScript, Assembly Language, MATLAB
- Technologies:** React, Next.js, Express, PostgreSQL, Ren'Py, OpenLayers, Pandas, TensorFlow, LLM models
- Tools:** Docker, Git, Visual Studio Code, Jupyter, MATLAB, Arduino IDE, TinkerCad

HACKATHONS AND COMPETITIONS

Smart India Hackathon 2024 Finalist

Software Team Member

IEM, Kolkata

December 2024

- Participated as a team member in the prestigious Smart India Hackathon 2024 Finals.

IEEE Kolkata Chapter Student Poster Contest 2024

Winner

IEM, Kolkata

October 2024

- Won first prize for the project on Frequency Selective Surfaces (FSS) for energy harvesting.

360CodeCraft 2024

Travel Track Winner

IEM, Kolkata

March 2024

- Secured the travel track winner title in the flagship event of Innovacion 2024.