

Padmaja Mazumder

 [github](#) |  [linkedin](#) |  [NITS mail](#) |  [IIT M mail](#) |  [Personal mail](#) |  +91-848-6236-371

EDUCATION

National Institute Of Technology, Silchar, India

B.Tech in Electronics And Instrumentation Engineering (2022 - 2026)

Indian Institute of Technology, Madras

B.S in Data Science and Applications (2022 - 2026)

EXPERIENCE

IIT Madras

May 2024 - August 2024
Remote

– [SellSphere AdXchange](#) [Project Report](#)

- * **Impact:** Automated campaign management, ad requests, **reduced manual effort** facilitating **targeted promotions and monetization**, helped in collaboration between brands and influencers.
- * **Result:** Increased brand visibility 2 times, doubling **influencer earnings**, and introduced an admin panel for monitoring, flagging, creating a **safer, fraud-free** environment enhancing safety.
- Technologies and Tools:** Flask, SQLAlchemy, SQLite, HTML, CSS, ChartJS, Jinja2, Flask-Login.

[Google Developer Student Club'24](#)

August 2023 - August 2024
Silchar, India

- **Impact:** Streamlined the process of sharing lengthy URLs across different communication platforms, significantly enhancing the ease and efficiency of information distribution for over 500 students and faculty members.
- **Result:** Successfully increased engagement with shared content on social platforms by 25% by reducing link clutter and improving user experience, contributing to a 15
- **Technologies:** HTML, CSS, JavaScript, Bootstrap, NodeJS, ExpressJS, MongoDB, Prisma, Git, AWS.

PROJECTS

[Aura-3D Navigator](#)

- **Description:** An innovative 3D mapping application powered by Gemini technology to provide detailed, real-time spatial visualization and navigation.
- **Features:** Seamlessly integrates [Unity](#) and [Flutter](#) for precise indoor navigation, offering users a 10 * 10 grid detailed spatial mapping experience with multiple attachments.
- **Technologies Used:** [Flutter 3.23.0-13.0.pre.69 master channel](#), Dart 3.5.0, FlutterFlow v4.1.60+, [Unity 2022.3.29f1 3D Mobile](#), gemma-2b-it-gpu-int4 (via mediapipe llm inference), Gemini API, OpenStreetMap, Firebase, Android Studio, VSCode, Play Console ([Playstore Link](#)).

[MERN Chat](#)

- Developed a real-time chat application with authentication and authorization using JWT, allowing users to securely interact and send messages in real-time.
- **Impact:** Addressed the need for secure, fast, and responsive communication within teams by offering a platform that facilitates real-time messaging with user authentication and online status for over 500 active users.
- **Result:** Improved remote collaboration by reducing communication delays by 30% and ensuring secure exchanges between users, leading to a 20% increase in user satisfaction and enhanced team interactions.
- **Technologies Used:** MERN Stack (MongoDB, Express, React, Node.js), Socket.io, TailwindCSS, Daisy UI, JWT, Zustand.

TECHNICAL SKILLS

Languages:	C/C++, HTML, CSS, JavaScript, Python
Frameworks	React, flutter, Bootstrap, NodeJS, Express , Flask.
Tools	Redis, Figma, Canva, Mongoose, Prisma,SQL, Git, MongoDB, AWS.
Programming Fundamentals:	Object-Oriented Programming, DBMS, Data Structures.
Soft Skills:	Leadership, Event Management, Writing, Communication, Time Management,Marketing.

POSITIONS OF RESPONSIBILITY

- Google Developer Student Club '24** - Cloud Team, Marketing Executive. Contributed to the project **Efficacy** and deployed it entirely using GDSC's AWS account. Organized **Web Blitz 4.0** with over 40 attendees. Conducted **Prototype Plenary 4.0** on Figma and UI/UX development with over 55 attendees.
- Illuminits: Literary, Publication, and Fine Arts Society** - Junior Executive, Marketing Team. - Coordinated **Graffiti**, a wall painting event with over 30 participants. Participated in **Deprador** and **Kaladarshan**. Managed and organized **Premier League** with more than 60 participants.
- Sundarbans House , IIT Madras** - Marketing and event management executive.
- White Hat Guild , IIT Madras** - Technical team member and core executive of cyber security club of IIT madras and have conducted many workshops and orientation'24 and 2025.

CERTIFICATIONS & ACHIEVEMENTS

- Solved Data Structures and Algorithms (DSA) problems across platforms . Ranked in the top 9.55% on LeetCode with a rating of **1700**.

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| * Google Cloud Skills Boost | * Intern at TeccGadgets |
| * Gen AI Study Jams | * Cloud Computing Intern |
| * Social Summer Of Code | * Robotics Workshop by IEEE |
| * Diploma in Programming | * Drone Workshop by MEITY |
| * Foundation in Data Science | * Indian Oil Corporation Limited trainee |