

# DEBASHIS BERA

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## ABOUT

### Computer Science | Software Developer | AI & Web Applications | 2× Hackathon Winner

Aspiring Software Engineer with a strong foundation in C/C++ and Python, complemented by hands-on experience in coding and technical workshops. Driven by a passion for solving complex challenges and tailoring software solutions, eager to define mission-critical requirements and develop user interfaces. Demonstrates a proactive approach through collaborative projects and coding initiatives.

## TECHNICAL SKILLS

- **Programming Languages:** C/C++, Python, JavaScript, HTML5/CSS3, Verilog, MySQL
- **Frameworks, Libraries & Tools:** React.js, Tailwind CSS, NumPy, Pandas, SciPy, EmailJS, ParticleJS, Git, GitHub, Firebase
- **Soft Skills:** Problem Solving, Leadership, Communication, Team Collaboration, Adaptability
- **Interests:** Sports (Cricket, Chess, Table Tennis), Fitness & Gym, Painting Art & Drawing, Technology Research

## EDUCATION

**MAKAUT, WB, Kalyani** *B.Tech, CSE* (GPA: 8.60/10 CGPA) **2022 - July 2026**

- **Coursework:** OS, COA, Computer Networks, DBMS, Automata Theory, DAA, Machine Learning, Explainable AI (X-AI)

**Karkai Vivakanda Vidyapith** *12th Science*, (GPA: 91.6%)

**Panithar G M Siksha Sadan** *10th* (GPA: 93.15%)

## KEY PROJECTS

**Explainable Machine Learning Model for Arrhythmia Detection** | [Code](#) | *Academic* **May 2025 - Present**

- Developed a hybrid ECG beat segmentation and classification pipeline, achieving 99% accuracy using interpretable ML models.
- Implemented comprehensive data preprocessing and feature extraction techniques for medical diagnostics of Arrhythmia.
- Based on **MIT-BIH Arrhythmia DataSet**

**Aayojan.AI – Heritage Event Management Powered by AI** | [Demo](#) **Sep 2025 - Sep 2025**

*Winner, MetaMorph S1 Hackathon (36h)*

- Built an AI-driven cultural event management platform with features like multilingual content generation, smart finance tracking, role-based dashboards, AI poster maker, and community engagement tools.
- Engineered using **Next.js (App Router)**, **TypeScript**, **Tailwind**, **Prisma**, **PostgreSQL**, **Better Auth**, **Firebase Auth**, **Google Gemini 2.5 AI**, **Vercel**; delivered a heritage-inspired, responsive, and accessible design system.

**Aarav – My Personal AI Assistant** | [Code](#) | *Personal* **Feb 2025 - Present**

- Developed an emotionally intelligent AI assistant with real-time voice conversations, task automation, and personality-driven responses.
- Integrated Google Gemini AI, ElevenLabs TTS, and speech recognition with modular communication and cognitive pipelines.

**Annapurna – AI Recipe & Nutrition Companion** | [Demo](#) | *Hackathon* **Aug 2025 - Aug 2025**

- Developed the frontend for an AI-powered meal planning and nutrition tracker, featuring OCR-based inventory scanning, personalized recipe generation, and real-time nutrition insights.
- Designed a responsive, animated UI; backend hosted on MCP server in collaboration with Puch AI.

**Narada Bot - Discord Event Management System** | [Demo](#) | *Composio* **Aug 2024 - Aug 2024**

- Built an intelligent Discord bot integrated with Google Calendar for automated event scheduling and reminders.
- Winner of "Best Use of Composio" at Hack4Bengal 3.0. (Hackathon | Team Project)

## PROFESSIONAL EXPERIENCE

**Hackaut (College Coding Club)** | *Language Coordinator* **Nov 2023 - Present**

- Organized technical workshops enhancing communication and coding skills for 100+ students
- Promoted collaborative learning through structured practice sessions

**GDSC MAKAUT '23** | *AI & ML Core Member* **Aug 2023 - Jun 2024**

- Facilitated AI/ML sessions focusing on Python libraries, including NumPy and Pandas
- Mentored students in machine learning concepts and practical implementations

## ACHIEVEMENTS

- **Winner — MetaMorph Season-1 (36-hour hackathon): Built Aayojan.AI (winning project)**
- **Hackathon Winner:** Hack4Bengal 3.0: Won "Best Use of Composio" track for Narada Bot
- **Course:** Certification: Completed Decode batch of DSA C++