


Mrinmoy Koiri

 LinkedIn

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 Portfolio

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EDUCATION

- National Institute of Technology, Silchar** Silchar, India
B.Tech in Electrical Engineering; CGPA: 7.38 2023 - Present
- Shrimanta Shankar Academy** Guwahati, India
Higher Secondary (PU: 10+2); Percentage: 83.4 2022

PROJECTS

- Real-Time Networked Music Player (C++, Boost.Asio, Socket Programming)** Live Demo
Repository Link May 2025 - Present
 - Building a real-time networked music player in C++ using socket programming and multithreading, enabling runtime creation of private music rooms with up to 4 synchronized users, automatic room locking, and seamless user experience.
 - Architecting a distributed voting protocol using Boost.Asio over TCP/UDP, enabling seamless Music Jockey (MJ) election with leader determination and automatic control delegation.
- Medical Chat Assistant** Repository - Public
AI-powered medical chatbot with disease prediction Feb 2025 - Present
 - Collaborated with a team of 3 to develop a multiplatform chatbot handling requests at up to 98% accuracy.
 - Extended functionality using a 7k+ record medical dataset by extensive scraping from authoritative sources.
 - Tools:** Flask, BeautifulSoup, Python, HTML, CSS, JS
- ML Club NIT Silchar, Website** Mar 2024 - Jun 2024
Repository: Private Live Link
 - Revamped the official website for the ML Club, NIT Silchar, showcasing club activities and 10+ club projects.
 - Enhanced the club's online presence with a visually appealing interface, increasing online engagement by **30%**.
 - Tools:** Vite, Svelte, Tailwind CSS, TypeScript, Vercel

SKILLS

- Languages:** C++, Python, JavaScript, TypeScript, Kotlin, SQL
- Frameworks & Libraries:** SvelteKit, Flask, NumPy, Pandas, Scikit-learn, TensorFlow, Matplotlib, LangChain
- Databases & Cloud Tools:** PostgreSQL, Supabase (PostgREST), Google Colab
- Developer Tools:** Git, GitHub, Postman, Edge DevTools, CI/CD, Docker (basic)

EXPERIENCES

- Neurathon 2025, Organizing Team** Live Link
AI/ML Hackathon self-hosted on our designed platform Jan 2025 - Mar 2025
 - Engineered and **deployed the Neurathon 2025 website**, attracting **over 500+ participants** from **30+ colleges**, improving event visibility by **40%** compared to previous editions.
 - Enhanced frontend performance, **achieving a 20% reduction in load times** and ensuring a smooth user experience during peak traffic across the platform.
 - Tools:** Svelte, Tailwind CSS, TypeScript, Git, GitHub, Supabase Database

POSITION OF RESPONSIBILITY

- Machine Learning Club, NIT Silchar** Onsite
Technical Head Aug 2025 - Present
 - Led technical onboarding sessions for freshmen, introducing key ML concepts and tools impacting 300+ students.
 - Leading the development of a central AI/ML resource hub aimed at global accessibility and community-driven learning.
- Development Wing, Electra Society, NIT Silchar** Website Link
Development Head Aug 2025 - Present
 - Orchestrated the 'Dev-Module' initiative, mentoring 50+ freshmen in Web, Android, and Cloud technologies through hands-on sessions and project-based learning.
 - Engineered key features for the official Electra Society website, resulting in a 40% increase in user engagement.

HONORS & ACHIEVEMENTS

- Hacksagon 2025 Finalists** By IIITM Gwalior
AI/ML Hackathon Finalist Upcoming - Jul 2025
 - Building a sentiment-aware medical chatbot, scraping from verified sources to improve response empathy, 92% accuracy.
 - Implementing vector-based context awareness and dynamic reply generation using NLP and 2 embedding techniques.
 - Tools:** Python, Flask, BeautifulSoup, Scikit-learn, Sentence Transformers
- NITS HACKS 7.0 Finalists** By GDGC NIT Silchar
Selected for the final round of a premier hackathon with a 4-member team. October 2024 - November 2024