

SOUNAK MAITI

ASPIRING SOFTWARE DEVELOPMENT ENGINEER

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PROFILE SUMMARY

B.Tech student in Electronics and Communication Engineering at IEM, Kolkata (2023-27), with strong skills in programming, web development, and embedded systems. Completed a Machine Learning internship at Prodigy InfoTech and developed multiple hardware-software integrated projects. Passionate about building real-world tech solutions.

TECHNICAL SKILLS

- **Operating System:** Windows, Linux (Fedora, Ubuntu)
- **Programming:** Data Structures, Algorithms, API Integration, Frontend Development, Backend Development
- **Languages & Scripting:** AI/ML, HTML, CSS, C (Basic), Java (Basic), Python (Basic), C++, MySQL
- **DevOps Tools:** Git, GitHub, AWS (S3)
- **AI Tools:** Lovable AI, Gemini, ChatGPT, BLACKBOX AI, Grok, Perplexity Pro, Claude
- **Other Tools:** VS Code, Jupyter, Google Collab, Canva, MySQL
- **Cloud & Automation:** CI/CD Basics, GitHub Actions, AWS
- **Others:** DevOps, DBMS, Photography, Videography

PROJECTS

- **Portable ECG Sensor** - Designed and Executed a compact, real-time ECG monitoring device using an Arduino Nano-based embedded system, enabling accurate heart rate detection with 95% measurement precision during field tests.
- **AgriChain Pro** - Enhanced a web-based agriculture optimization platform integrating crop suggestion, yield prediction, transport optimization, and market price analysis, enabling data-driven decision-making for farmers.
- **Exhaust Emission Monitoring System** - Designed and implemented a real-time exhaust gas monitoring device using sensors and microcontroller-based processing, enabling accurate detection of pollutant levels to ensure environmental compliance.

INTERNSHIP

Machine Learning Intern

ProdigyInfoTech | June 2024 - July 2024

- Developed predictive ML models using Python and Scikit-learn, achieving 87% accuracy in classification tasks and reducing data preprocessing time by 25%.
- Gained hands-on experience in data preprocessing, training models, and evaluating performance.

EDUCATION

Bachelor of Technology (B.TECH)

July 2023 - July 2027

Institute of Engineering & Management, Kolkata

Full time

CGPA - 8.57/10.00

CERTIFICATES & ACHIEVEMENTS

Languages: Bengali(M), English, Hindi

Certifications: Internet of Things and AI Cloud (Coursera), Internal Hackathon of Smart India Hackathon 2024, Computational Mathematics for Data Science Hackathon (2023)

Interests: Creative Arts (Drawing, Sketching), Photography, Automotive Enthusiast