Apabrita Sarkar

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https://apabritaportfolio.vercel.app/ ⬤ *https://github.com/ApabritaSarkar* ▣ *https://www.linkedin.com/in/apabritasarkar/*

PROFESSIONAL SUMMARY

Enthusiastic Computer Science undergraduate skilled in **programming**, **full-stack development,** and **AI & ML**. Experienced in building scalable applications and innovative projects like a **Crowd Management System**. **Smart India Hackathon 2024 Grand Finalist**, with strong problem-solving and teamwork abilities, seeking opportunities to create impactful solutions.

SKILLS

- Programming - C | C++ | Python | Java
- Backend Development - NodeJS | ExpressJS | API
- Libraries & Frameworks – React | Tailwind | jQuery | Bootstrap
- Databases – MySQL | MongoDB
- Version Control – Git | GitHub
- Operating System – Windows | Linux
- UI/UX - Figma | Canva

EDUCATION

University of Engineering and Management, Kolkata   2022-2026
B. Tech in Computer Science and Engineering
- CGPA: 8.52 (up to 5th Sem)
- **Coursework:** Data Structures and Algorithms, Object Oriented Programming, DBMS, AI & ML, Cyber Security

EXPERIENCE

Grand Finalist, Smart India Hackathon, 2024
National level Hackathon conducted by AICTE and MIC
- Collaborated with a team of six to design and implement a Crowd Management Surveillance System for large gatherings.
- Presented the project to industry experts and government officials, receiving recognition for innovation and technical excellence.

PROJECTS

Crowd Management Surveillance System   Oct-Dec 2024
- Spearheaded the development of a Crowd Management Surveillance System with a team of six, leveraging AI to analyze video feeds, achieving 95% accuracy in identifying potential security threats.
- Achieved 85% detection accuracy for crowd and reduced response time for missing person identification by 90%.
- Technologies used: MERN stack, Python and its frameworks/libraries, Flask, Axios, Git, GitHub

GreenVerse – Eco lifestyle Engagement Platform   Jan-Mar 2025
https://greenverse-ten.vercel.app/
- Built full-stack platform with personalized plant logging, forums, and 60% higher user engagement.
- Achieved 95+ performance score and 100% mobile responsiveness using React, Tailwind, and Framer Motion.
- Scaled to 100+ users with secure JWT auth, MongoDB storage, and modular UI architecture.

Student Expense Tracker – Intelligent Financial Dashboard   Apr-Jun 2025
https://expense-tracker-eight-mu-99.vercel.app/
- Designed budgeting dashboard managing 1,000+ expenses with real-time tracking and AI tips.
- Improved accuracy by 80% using Chart.js visualizations and smart input validation.
- Migrated to React + Tailwind, cutting load time by 40% and boosting modularity by 3×.

ACHIEVEMENTS & ACTIVITIES

- Project making competition 2024 UEMK
- Flipkart GRiD 6.0
- NITS HACKS 7.0 – UI/UX Track

- Hackfest 2024 UEMK
- Project making competition 2022 UEMK

TRAINING

Master Diploma in Desktop Publishing

Rastriya Youth Computer Centre, Krishnagar *2020-2021*

CERTIFICATES

- Google Cybersecurity Professional Certificate - 'Foundations of **Cybersecurity'**
- Career Essentials in **Generative AI** by Microsoft
- **Git** Essential Training by LinkedIn
- Google IT Support Professional Certificate – '**Operating Systems**: Becoming a Power User'
- Google Project Management Professional Certificate – 'Foundations of **Project Management**'
- Meta Database Engineer Professional Certificate – **Database** Structures and Management with MySQL
- Introduction to **Soft skills** by TCS ion

KEY STRENGTHS

- Proactive problem solver
- Highly adaptable
- Team oriented
- Innovative thinker
- Empathetic leader