

SWAPNONEEL MONDAL

Computer Science Student • AI/ML Enthusiast • Vibe Coder

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PROFESSIONAL SUMMARY

Computer Science student focusing on modern software development, data analytics, digital logic, and machine learning systems. Experienced in rapid prototyping and building interactive web platforms through AI-assisted workflows ("vibe coding"), prompt engineering, and core algorithms.

EDUCATION

Bachelor's Degree in Computer Science / Applications

2024 – Present

Institute of Engineering & Management

- Coursework & Foundations: Core Computer Science, Data Structures & Algorithms, Digital Logic Design, and Applied Mathematics.
- Hands-on practical development utilizing MATLAB for matrix operations, C programming structures, and computer logic simulation.

EXPERIENCE & TECHNICAL ENDEAVORS

Vibe Coder & AI-Assisted Developer

2026 – Present

Self-Directed / Independent Projects

- Leveraging modern LLMs and generative AI tools to rapidly architect, prototype, and ship responsive full-stack web applications.
- Applying advanced prompt engineering strategies to synthesize design visions, optimize software pipelines, and speed up implementation cycles.

Independent Web Creator & Developer

2024 – Present

Projects & Web Development

- Designing, developing, and deploying modern interactive web platforms with clean user interfaces and smooth interactivity.
- Integrating component-driven architecture using React, JavaScript, and custom styling solutions for web applications.

Machine Learning & Data Analytics Explorer

2025 – Present

Academic & Practical Exploration

- Exploring machine learning concepts, data-driven analytical approaches, and algorithmic performance evaluation.
- Building foundational predictive models and experimenting with generative AI and media processing workflows.

FEATURED PROJECTS

- Interactive frontend web application designed and built to showcase dynamic visual solutions and smooth web UI components.
- Implemented using React, JavaScript, and modern CSS frameworks, deployed and hosted live via Netlify.

TECHNICAL SKILLS

Programming Languages	Python, C, JavaScript, MATLAB
Web & Frameworks	React, HTML5, CSS3, Modern UI Frameworks
AI & Methodology	Vibe Coding, Prompt Engineering, Generative AI, Data Analytics Foundations
Tools & Environments	Git, GitHub, Logisim, Netlify, VS Code