Swarnendu Chakraborty

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Professional Summary

Computer Science and Engineering (AI & ML) student with hands-on experience in full-stack development and cloud integration. Proficient in React.js, Node.js, MongoDB, and AWS. Built 4+ production-grade projects and research applications using NLP, signal processing, and generative AI. Strong foundation in Java, Python, and scalable software systems. Seeking internships in software development, AI/ML, or cloud engineering.

Technical Skills

- Programming Languages: Java, Python, C++, C
- Web Development: HTML, CSS, JavaScript, React.js, Redux, Node.js, Express.js
- Databases: MongoDB, SQL
- Cloud & Tools: AWS, Git, VS Code, Android Studio

Projects

GEN-AI-PlotBot: Your AI Movie Idea Assistant | Python, Jupyter Notebook | Apr 2025

- Developed a generative AI system using a fine-tuned DistilGPT-2 model to generate movie plotlines from user prompts.
- Preprocessed custom datasets and performed prompt engineering for narrative coherence.
- Designed an interactive notebook interface to test and demo storyline generation for creative use cases.

Cloud-Based Social Media Dashboard | HTML, CSS, JavaScript, AWS | Mar 2025

- Built a cloud-integrated dashboard that aggregates data from multiple social media platforms (e.g., Twitter, Instagram).
- Used AWS services like S3 and Lambda for secure, scalable storage and automation of data updates.
- Enabled real-time analytics and visualizations of social media metrics, improving content strategy decisions.

DreamDose | Java, JavaScript, HTML, CSS | Mar 2024

- Developed an Android application that monitors and analyzes user sleep patterns using sensor data.
- Delivered personalized, dream-inspired music using a rule-based recommendation engine to improve sleep quality.
- Implemented user-friendly UI with responsive design for smooth performance across Android devices.

EcoEfficiency | Java, HTML, CSS, JavaScript | Mar 2024

- Created an Android app to measure and reduce individual and business carbon footprints.
- Integrated sustainability metrics and visual dashboards to track energy and water usage over time.
- Applied RESTful APIs for real-time environmental data and used charts to visualize impact reduction strategies.

Education
B.Tech in Computer Science & Engineering (AI & ML)

Institute of Engineering & Management, Kolkata — Expected June 2026

CGPA: 9.05/10

Relevant Coursework: Machine Learning, Deep Learning, Computer Networks, Operating Systems

ISC – 94.50%

Authpur National Model Higher Secondary School, West Bengal — 2022

ICSE – 92.20%

Authpur National Model Higher Secondary School, West Bengal — 2020

Certifications
Cybersecurity Foundations: Governance, Risk, and Compliance
Automate Your Workflows with Generative AI
Neural Networks and Convolutional Neural Networks Essential Training
Machine Learning Foundations: Statistics
Build Serverless Applications

Achievements
- Leader, Socio-Technical Outreach Club
- Volunteer, International Conference on Web 6.0 and Industry 6.0 (WIN 6.0 2025)