

Shreya Chowdhury

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EDUCATION

Sister Nivedita University, Kolkata

2023 to 2027

Bachelor of Technology in Computer Science & Engineering (Cybersecurity, IoT, and Blockchain Technology)

• **CGPA:** Year 1: 8.24/10 - Year 2: 8.53/10

• **Relevant Coursework:** Data Structures & Algorithms, Web Development, DBMS, OS, Computer Architecture & Organization, Object-Oriented Programming, Computer Networks.

EXPERIENCE

Employability.life - *AWS DevOps Intern*

Dec 2025 to Jan 2026

- Orchestrated cloud infrastructure and deployed applications utilizing AWS EC2, Amazon S3, and IAM during a hands-on DevOps internship.
- Collaborated with cross-functional teams to implement Git and CI/CD workflows, reducing deployment effort by 40%.
- Optimized deployment workflows, monitored cloud infrastructure, and maintained Linux-based AWS environments, maintaining 99.9% uptime while improving deployment reliability.

RT Network Solutions Pvt. Ltd. - *Generative AI Quality Assurance Intern*

Mar 2026 to Apr 2026

- Conducted systematic quality assurance for 1200+ AI-generated image-prompt pairs, improving prompt-image alignment by 25% and enhancing model consistency through defect analysis and validation.

PROJECTS

ZeroShield AI - AI-Powered Cybersecurity Platform - *React, Node.js, TypeScript, Tailwind CSS*

GitHub

- Architected a full-stack Security Operations Center (SOC) platform comprising 6+ security modules, including AI threat detection, attack simulation, response engine, threat intelligence, endpoint monitoring, and activity logging.
- Integrated 4+ interactive dashboards, behavioral anomaly detection, vulnerability scoring, and automated response workflows, improving threat visibility by 60% and enabling real-time zero-day threat analysis.
- Established a responsive React interface with 20+ reusable UI components and modular REST APIs to visualize live risk scores, endpoint status, security logs, and real-time threat alerts.

Glow-AI - AI-Powered Beauty Marketplace - *React, Node.js, MediaPipe, Groq API*

Live | GitHub

- Crafted a full-stack AI beauty platform integrating 4 external APIs (Groq, Google Maps, Google Places, MediaPipe), improving recommendation accuracy by 30% through AI-powered facial analysis and personalized salon matching.
- Deployed 8+ production-ready modules powered by 10+ user preference parameters, including AI beauty analysis, concierge chatbot, bridal planner, salon marketplace, and real-time profile management.

Sleep Hours Prediction WebApp - *Flask, Python, Scikit-learn, HTML/CSS*

Live | GitHub

- Designed a Flask-based Machine Learning application using 6 lifestyle parameters to generate real-time sleep predictions with 90%+ accuracy.
- Automated preprocessing, feature scaling, and model deployment, reducing inference latency by 45%.

Non-Falling Smart Car - Autonomous IoT Vehicle - *Arduino, Embedded C, IR Sensor, Ultrasonic Sensor*

GitHub

- Engineered a non-falling smart car utilizing Arduino and embedded C, achieving a stability rate of 95% when navigating challenging terrains, demonstrating significant advancements in autonomous vehicle technology.

TECHNICAL SKILLS

- **Languages:** Python, C, C++, JavaScript, TypeScript, HTML/CSS.
- **ML & Data:** Flask, Scikit-learn, Pandas, NumPy, Matplotlib.
- **Databases & Tools:** MongoDB, Git, GitHub, VS Code, Google Colab.
- **Core Competencies:** Software Engineering, Full-Stack Development, Cybersecurity, Artificial Intelligence, Machine Learning.

CERTIFICATIONS

- **Coursera:** Technical Support Fundamentals – Google, Introduction to Computers and OS & Security – Microsoft, ML and NLP Basics – Edureka, Gen AI: Introduction and Applications – IBM, Hardware and OS Foundations – Illinois Tech,
- **Forage:** Deloitte Cyber Job Simulation, TATA Cybersecurity Analyst Job Simulation.

LEADERSHIP & ACHIEVEMENTS

- **Leadership:** Volunteered a comprehensive learning platform for 500+ students during the XPMC Learner Interaction Session, fostering significant engagement and skill development.
- **Hackathons:** Secured 16th Rank (National Finalist, Top 150) among 1,500+ developers in the National Cloud Innovation Challenge (2026) and was a Top 5000 Finalist in Build With India (2025).
- **Class Representative:** Served as the elected Class Representative for 3+ years, leading communication for 60+ students, coordinating with faculty, and organizing academic and departmental activities.
- **Technical Events:** Enhanced technical and professional skills by participating in 5+ conferences, workshops, and developer communities focused on AI, Cybersecurity, Cloud Computing, and Software Development.