

BHABANA KALITA

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PROFESSIONAL SUMMARY

Results-driven Computer Science undergraduate skilled in Java, Python, C, SQL, Data Structures and Algorithms, and Machine Learning, targeting Software Engineer / Backend Developer internship roles. Experienced in cybersecurity, Generative AI, REST API development, and scalable ML pipelines using Scikit-learn, Pandas, NumPy, and Flask. Two-time Smart India Hackathon finalist and team leader building efficient, high impact software solutions.

TECHNICAL SKILLS

Languages: Java, Python (Pandas, NumPy, Flask), C

Web: HTML5, CSS3, JavaScript, React, REST API Development, Backend Development

Database: SQL (Queries, ETL Pipelines, Data Modeling)

Tools: Git, GitHub, Figma, Canva, AWS Cloud Services

Core CS: Data Structures & Algorithms, Machine Learning (Scikit-learn (Scikit Learn), Classification, Regression), Artificial Intelligence, Cybersecurity, Socket Programming, Multithreading

INTERNSHIP EXPERIENCE

Cybersecurity Intern - *Codec Technologies*

Jun 2025 – Jul 2025

- Conducted vulnerability assessments and penetration testing on web and network systems using industry-standard security tools, identifying 10+ critical security vulnerabilities across applications and infrastructure.
- Performed phishing simulations and ethical hacking exercises using OWASP principles, reducing potential security vulnerabilities and improving system resilience and identifying 10+ attack vectors.

Generative AI Intern - *Eduskills Foundation (Google Cloud)*

Oct 2024 – Dec 2024

- Designed and developed Generative AI workflows on Google Cloud Platform (GCP) using LLMs, improving model response accuracy and efficiency across multiple test scenarios.

PROJECTS

Secure File Transfer System | *Java, AES-256, Socket Programming, Cryptography, Multithreading* | **GitHub:** <https://github.com/bhabana2504/secure-file-transfer>

- Engineered a production-grade AES-256 encrypted peer-to-peer file transfer system in Java using TCP Socket Programming and Multithreading, enabling secure and concurrent data transmission across distributed network clients.
- Implemented checksum validation, token-based authentication, and role-based access control (RBAC) using Data Structures & Algorithms and cryptographic techniques, preventing unauthorized access and enhancing system security.

AI Supply Chain Risk Predictor | *Python, Scikit-learn, Pandas, NumPy, Flask, REST API, React* | **GitHub:** <https://github.com/bhabana2504/ai-supply-chain-predictor>

- Developed a supervised Machine Learning classification model using Scikit-learn, Pandas, and NumPy, achieving 87%+ accuracy in predicting supply chain disruption risk across 500+ real-world data points.
- Designed an end to end ETL data pipeline using Pandas, deployed a Flask-based REST API for backend inference, and built a React dashboard for real-time risk visualization and data-driven insights.

EDUCATION

B.Tech - Computer Science & Engineering | Galgotias University | **CGPA:** 7.5/10

2023 – 2027

Senior Secondary (Class XII) | Narayana E-Techno School, Guwahati | 71.9%

2023

Secondary (Class X) | Don Bosco School, Sonaighuli | 82.6%

2021

CERTIFICATIONS

- AWS Academy Graduate - Data Engineering (Sep 2025)
- Oracle: AI Foundation Associate, SQL
- Infosys: Business Intelligence
- GUVI (IIT Madras): Java, 100 Days of Python, Data Structures Using Java
- CodeChef: C Programming

ACHIEVEMENTS & LEADERSHIP

- Smart India Hackathon 2025 - Team Leader:** Top 50 teams out of 50,000+ participants; led strategy, technical task delegation, and final presentation for a national-level software engineering challenge.
- Smart India Hackathon 2024 - National Finalist & Project Leader:** Drove end to end solution design, algorithm development, and cross-functional team coordination for a nationally recognized hackathon.
- Participated in 6+ hackathons, consistently demonstrating rapid prototyping, backend development, problem-solving with Data Structures & Algorithms, and collaborative leadership under time constraints.