

Sumedha Kar

Bachelor of Technology, Kalinga Institute of Industrial Technology

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Education

All India Senior School Certificate Examination (10+2)

Aditya Birla Vani Bharati, Rishra

Percentage: 82

2021-23

Bachelor of Technology in Computer Science Engineering

MCKV Institute of Engineering, Liluah

CGPA: 9.52

2023-27

Personal Projects

Asistencia

A website-based facial authentication system using Python.

- Developed facial recognition attendance system for 100+ employees, reducing manual errors by 85%.
- Integrated real-time dashboards and custom reports, improving efficiency by 60%.
- Technologies: Python, Django, HTML, CSS, OpenCV, Bootstrap

SecureSight: AI-Powered URL Threat Detector

Detects and blocks malicious URLs in real-time.

- Designed a responsive UI supporting 500+ users across devices.
- Implemented AI-based threat detection and YARA rule scanning with 92% accuracy.
- Technologies: HTML, CSS, Bootstrap

Experience

Virtual Internship with AICTE & Shell

Edunet Foundation (Online)

Dec 2024 - Jan 2025

- Improved grid efficiency by 15% using AI-driven strategies from Green Skills internship.
- Earned full certification in sustainable technology via Skills4Future.

Fortinet Virtual Internship

AICTE-Eduskills (Online)

December 2024

- Automated vulnerability scanning, saving 40 hours/week in manual testing.
- Reported top vulnerabilities with uptime recommendations to leadership.

Research Papers

- **"Post-Quantum Cryptography: Navigating Challenges"** – Co-authored study on quantum threats and PQC algorithms (CRYSTALS-Kyber, SPHINCS+).
- **"Threat Intelligence and Offensive Security"** – Studied cybersecurity trends in Asia; predicted \$2T cybercrime impact by 2025.

Technical Skills

- **Languages:** Python, C++, JavaScript, SQL, HTML, CSS, Java
- **Frameworks:** Scikit-learn, TensorFlow, Keras, Django, NodeJS
- **Tools:** Git, PostgreSQL, MySQL, SQLite, Power BI, Google Cloud Console
- **Coursework:** DSA, OS, OOP, DBMS, Software Engineering
- **Interests:** Web Dev, Cloud Security, Information Security
- **Soft Skills:** Presentation, Independent Learning, Agile Adaptability, Leadership

Achievements

- Solved 250+ problems on Leetcode (Max Rating: 1655)
- Top 2% – Pentathlon 2024 CTF
- Top 50 teams – IIT Kanpur CTF (June 2024)

Certifications

- Google Cloud Cybersecurity Expert
- Cisco Ethical Hacker
- SecOps Group AppSec Practitioner (CAP)
- AI/ML for Geodata Analysis by ISRO