Samriddhi Tripathi

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Education

VIT Bhopal University	Bhopal, Madhya Pradesh	Cumulative GPA: 9.00/10
B. Tech		Sep 22 – May 26

Major in Computer Science and Engineering, Specialization in Cyber Security and Digital Forensics

12th Standard

Sanskaar International School	Prayagraj Uttar Pradesh	
CBSE Percentage: 84.2%		Jul 22

10th Standard

St. Mary's Convent Inter College	Prayagraj Uttar Pradesh	
ICSE Percentage: 95.6%		Jul 20

Projects

SecureShare: End-to-End Encrypted File Transfer Platform   May 25
- Built a secure MERN-stack file-sharing platform with end-to-end encryption (AES-256) and password protection.
- Designed OWASP-compliant security measures—input sanitization, XSS/NoSQL attack prevention—and enforced HTTPS for safe data transfer.
- Developed a React frontend with real-time file handling, achieving <500ms API responses via Express.js and MongoDB optimizations.

MedSync: Intelligent Hospital Management   Dec 24 – Mar 25
- Developed a full-stack healthcare management platform that reduced OPD wait times by 55% and bed allocation time by 83%, enhancing hospital efficiency and patient experience.
- Integrated 4+ key modules including multilingual support, GPS-based emergency navigation, and AI chatbot, enabling city-wide access to real-time healthcare services.
- Led frontend development for 5+ critical features using React.js, Tailwind CSS, and Figma; built OPD scheduling and registration modules with input validation and dynamic UI components, boosting usability for 1,000+ users.

Advanced Malware Detection System   Feb 24 – May 24
- Formulated a robust malware detector using Python and Scikit-learn, capable of detecting external devices and tracking real-time memory changes, improving system security for over 200 users.
- Implemented a signature-based malware search utilizing a database of 10,000+ signatures and integrated Support Vector Machine (SVM) algorithms to enhance detection capabilities, achieving a 95% detection accuracy rate.
- Contributed as a part of a 5-person team focused on device and malware detection.

Work Experience.

Indian Space Research Organization (ISRO) Internship at SHAR SDSC   Oct 24 – Nov 24
- Restructured an AI-based radar signal strength prediction system for launch vehicle tracking, enhancing real-time analysis.
- Engineered data pipelines and ML models to process high-volume sensor data, improving system reliability.
- Collaborated with scientists to align AI solutions with mission-critical operational requirements.

Extracurricular

Android Club   Feb 23 – Ongoing
- Led monthly Android initiative meetings as Operations Manager to drive project milestones and organized 16 high-impact events, engaging 300+ participants each to promote Android technologies and skills.

Kathak Dancer
- Professionally trained Kathak dancer with Senior Diploma from Prayag Sangeet Samiti.

Achievements

- Secured AIR 85 and selected for Winter Internship at India Space Lab.   Dec 24
- Advanced to the Smart India Hackathon College Round by creating an AI-powered mascot and digital avatar for Namami Gange, consolidating over 100 pieces of Ganga-related information to enhance outreach. Aug 23 – Dec 23
- Collaborated in the Malware Analyzer Hackathon at IIT Madras, developing a real-time ML model that achieved 95% accuracy in classifying files as malicious or not using Linear Regression and XGBoost.   Sep 24-Oct 24
- Solved over 250+ question in Leetcode.

ADDITIONAL

Technical Skills: Java, Python, HTML, CSS, JavaScript, Figma, Data Structures, Algorithm, Learning Linux
Languages: Hindi, English, Little Understanding Proficiency in Japanese.
Certifications & Training: Certified Ethical Hacker CEH v12 (EC- Council) – Secured 124/125 marks – Dec 24