

Samriddhi Tripathi

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EDUCATION

VIT Bhopal University, Bhopal, Madhya Pradesh Sep 22 - May 26
B.Tech in Computer Science and Engineering Specialization in Cyber Security and Digital Forensics CGPA: 9.07/10

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, HTML/CSS

Tools: Git, Figma, Linux

PROJECTS

SecureShare: End-to-End Encrypted File Transfer May 25

- Built a secure full-stack file-sharing platform with end-to-end encryption (AES-256) and password protection.
- Implemented OWASP-compliant security measures, including input sanitization, XSS/NoSQL prevention, and enforced HTTPS for safe data transfer.
- Developed a React frontend with real-time file handling, achieving <500ms responses via Express.js and MongoDB.

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.

MedSync: Web-Based Hospital Management System 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 an AI chatbot, enabling citywide 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.

WORK EXPERIENCE

Indian Space Research Organization (ISRO) - Internship at SHAR SDSC Oct 24 - Nov 24

- Designed 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.

CO-CURRICULAR

Android Club - Operations Manager Feb 23 - Present

- 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.
- Advanced to 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
- Certifications:** Certified Ethical Hacker CEH v12 (EC-Council) - 124/125 Dec 24

ACHIEVEMENTS

- Book chapter on Botnet and its effect in peer-to-peer networks in Healthcare Industry. (Scopus Indexed) Oct 23
- Collaborated in the Malware Analyzer Hackathon at IIT Madras. Developed a real-time ML model with 95% accuracy using linear regression and XGBoost. Sep 24 - Oct 24
- Achieved Top 20 All-Women Team status in ICPC 2024, with 1174th rank (Kanpur), 1198th (Other Regional), and 1st among women teams from VIT Bhopal University.
- Secured AIR 85 and selected for Winter Internship at India Space Lab. Dec 24

EXTRACURRICULAR

- Kathak Dancer - Senior Diploma, Prayag Sangeet Samiti**
 - Professionally trained in Kathak (classical Indian dance) for 8+ years, with performances at 20+ cultural events.

ADDITIONAL

Languages: Hindi (Fluent), English (Fluent), Japanese (Basic)