

Samriddhi Tripathi

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Education

VIT Bhopal University B. Tech Major in Computer Science and Engineering, Specialization in Cyber Security and Digital Forensics	Bhopal, Madhya Pradesh	Cumulative GPA: 8.98/10 Sep 22 – May 26
12th Standard Sanskaar International School CBSE Percentage: 84.2%	Prayagraj Uttar Pradesh	Jul 22
10th Standard St. Mary's Convent Inter College ICSE Percentage: 95.6%	Prayagraj Uttar Pradesh	Jul 20

Projects

Machine Learning Based Advance Malware Detector	Feb 24 – May 24
<ul style="list-style-type: none">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.	
PassGuardian	Aug 23 – Oct 23
<ul style="list-style-type: none">Engineered a comprehensive password management system with strict policies, improving cybersecurity awareness by 30% and reducing security breaches by 25% in the first quarter.Developed a cross-platform Flutter and Dart app, achieving 95% user satisfaction, while collaborating in a 5-member team to design and implement the front end.	
KYW (Know Your Weather)	May 23
<ul style="list-style-type: none">Designed and developed a weather-checking application using HTML, CSS, and JavaScript, serving over 1,000 users monthly with 98% cross-browser compatibility, and managed the project individually.Integrated real-time weather data via APIs, reducing page load times by 40% and boosting user satisfaction by 25%.	

Work Experience.

Project Intern at India Space Lab	Dec 24 – Ongoing
<ul style="list-style-type: none">Secured AIR 85 and selected for Winter Internship at India Space Lab, focusing on advanced technologies.Completing training in Drone Technology, CanSat/CubeSat, Astronomy, and Space Entrepreneurship.	
ISRO Internship at SHAR SDSC	Oct 24 – Nov 24
<ul style="list-style-type: none">Built a real-time signal strength prediction model for rocket launches using RNN and polynomial regression, achieving 99% efficiency in forecasting rocket launch performance based on 28 rocket data.Collaborated with ISRO scientists to enhance launch vehicle tracking and data analysis processes.	
Java Intern at CodSoft	Jan 24 – Feb 24
<ul style="list-style-type: none">Engineered Java-based applications for real-world use during a hands-on internship, ensuring robust functionality.Optimized the codebase, achieving a 20% increase in application speed and improving overall efficiency.	

Extracurricular

Android Club	Feb 23 – Ongoing
<ul style="list-style-type: none">Chaired monthly Android initiative meetings as Operations Manager, fostering collaboration and ensuring effective progress tracking to achieve project milestones.Organized 16 high-impact events, engaging 300+ participants each, including hackathons and interactive sessions, to promote Android technologies and enhance skills.	

Achievements

<ul style="list-style-type: none">Book chapter on Botnet and its effect in peer-to-peer networks in Healthcare Industry. (Scopus Indexing) Oct 23Advanced 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 23Collaborated 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	
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ADDITIONAL

Technical Skills: Java, Python, HTML, CSS, JavaScript, Figma, Dart, Kotlin, Data Structures, Algorithm, Learning Linux	
Soft Skills: Communication, Teamwork, Leadership, Problem-solving, Conflict-Management	
Languages: Hindi, English, Little Understanding Proficiency in Japanese.	
Certifications & Training: * Certified Ethical Hacker CEH v12 (EC- Council) – Secured 124/125 marks – Dec 24	
<ul style="list-style-type: none">Foundations of Cyber-Physical Systems (NPTEL) – Secured 64% Elite Certificate – Apr 24.	