

# Samriddhi Tripathi

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## Education

<b>VIT Bhopal University</b>	Bhopal, Madhya Pradesh	Cumulative GPA: 8.99/10
B. Tech		Sep 22 – May 26
Major in Computer Science and Engineering, Specialization in Cyber Security and Digital Forensics		
<b>12<sup>th</sup> Standard</b>		
<b>Sanskaar International School</b>	Prayagraj Uttar Pradesh	
CBSE Percentage: 84.2%		Jul 22
<b>10<sup>th</sup> Standard</b>		
<b>St. Mary's Convent Inter College</b>	Prayagraj Uttar Pradesh	
ICSE Percentage: 95.6%		Jul 20

## Projects

<b>MedSync: Intelligent Hospital Management</b>	Dec 24 – March 25
<ul style="list-style-type: none"><li>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.</li><li>Integrated 4+ key modules including multilingual support, GPS-based emergency navigation, and AI chatbot, enabling city-wide access to real-time healthcare services.</li><li>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.</li></ul>	
<b>Machine Learning Based Advance Malware Detector</b>	Feb 24 – May 24
<ul style="list-style-type: none"><li>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.</li><li>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.</li><li>Contributed as a part of a 5-person team focused on device and malware detection.</li></ul>	
<b>KYW (Know Your Weather)</b>	May 23
<ul style="list-style-type: none"><li>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.</li><li>Integrated real-time weather data via APIs, reducing page load times by 40% and boosting user satisfaction by 25%.</li></ul>	

## Work Experience.

<b>Project Intern at India Space Lab</b>	Dec 24 – Jan 25
<ul style="list-style-type: none"><li>Secured AIR 85 and selected for Winter Internship at India Space Lab, focusing on advanced technologies.</li><li>Completing training in Drone Technology, CanSat/CubeSat, Astronomy, and Space Entrepreneurship.</li></ul>	
<b>ISRO Internship at SHAR SDSC</b>	Oct 24 – Nov 24
<ul style="list-style-type: none"><li>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.</li><li>Collaborated with ISRO scientists to enhance launch vehicle tracking and data analysis processes.</li></ul>	
<b>Java Intern at CodSoft</b>	Jan 24 – Feb 24
<ul style="list-style-type: none"><li>Engineered Java-based applications for real-world use during a hands-on internship, ensuring robust functionality.</li><li>Optimized the codebase, achieving a 20% increase in application speed and improving overall efficiency.</li></ul>	

## Extracurricular

<b>Android Club</b>	Feb 23 – Ongoing
<ul style="list-style-type: none"><li>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.</li></ul>	
<b>Kathak Dancer</b>	
<ul style="list-style-type: none"><li>Professionally trained Kathak dancer with Senior Diploma from Prayag Sangeet Samiti.</li></ul>	

## Achievements

<ul style="list-style-type: none"><li>Co-authored a Scopus-indexed book chapter in Cybersecurity in Healthcare Applications (<a href="#">DOI</a>).</li></ul>		Oct 23 – Feb 25
<ul style="list-style-type: none"><li>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.</li></ul>		Aug 23 – Dec 23
<ul style="list-style-type: none"><li>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.</li></ul>		Sep 24-Oct 24

## ADDITIONAL

**Technical Skills:** Java, Python, HTML, CSS, JavaScript, Figma, 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

- Foundations of Cyber-Physical Systems (NPTEL) – Secured 64% Elite Certificate – Apr 24.