

PRABHAV SRIVASTAVA

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Education

B.Tech in Information Technology (CGPA: 8.25)	Aug 2022 – May 2026
<i>VIT Vellore</i>	<i>Vellore, India</i>
XII (ISC); Percentage: 95.25%	Apr 2021 – Jul 2022
<i>Sheiling House School</i>	<i>Kanpur, India</i>
X (ICSE); Percentage: 96.80%	Apr 2019 – Jul 2020
<i>Sheiling House School</i>	<i>Kanpur, India</i>

Technical Skills

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

Frameworks: React.js, Node.js, Express.js, Scikit-Learn, NumPy, Pandas

Tools: Git, GitHub, MySQL, Google Colab, AWS, VS Code

Coursework: Data Structures, Algorithms, Object Oriented Programming, DBMS, Operating Systems

Experience

Full Stack Software Engineer Intern	Jun 2025 – Jun 2025
<i>Hindustan Aeronautics Limited (HAL TAD)</i>	<i>India</i>
• Pioneered a secure web application using JavaScript, Node.js, and MySQL, replicating core ERP costing module workflows for 50+ users	
• Designed a Role-Based Access Control (RBAC) system, enforcing role-specific permissions for 3 tiers of users: workers, managers, and administrators	
• Enabled cost update, review, and approval workflows, automating processes and improving data accuracy for 50+ internal stakeholders	

Projects

Smart Recipe Generator <i>React, Node.js, Express, Groq LLM API</i>	Nov 2025
• Developed a full-stack AI platform using React and Node.js, generating 500+ unique recipes within the first month post-launch	
• Executed a robust backend with Express.js managing 1,000+ API calls monthly with seamless streaming completions from Groq LLM	
• Managed state using React hooks, ensuring smooth UI updates and persistent streaming connections for real-time content delivery	
AI Based Network Traffic Analyzer <i>Python, Scikit-Learn, NumPy, Pandas</i>	

AI Based Network Traffic Analyzer <i>Python, Scikit-Learn, NumPy, Pandas</i>	Oct 2025
• Implemented a real-time encrypted network traffic analysis pipeline to detect malicious activity with 92% precision and 88% recall	
• Integrated a novel class imbalance mitigation strategy, increasing the detection rate of malicious activities by 15%	
• Enhanced a Random Forest classifier for superior threat pinpointing, focusing on balancing false positives for enterprise security	
Leadership & Involvement	

Public Relations Head	Mar 2024 – Mar 2025
<i>IEEE Professional Communication Society (PCS), VIT Vellore</i>	

• Led outreach for 5+ flagship events , driving 1,000+ registrations and doubling online engagement via targeted campaigns	
• Managed a 30-member team handling event operations and sponsor outreach, ensuring 100% on-time execution	
Core Committee Member	
<i>IEEE PCS, VIT Vellore</i>	

• Coordinated logistics for 5+ chapter events , including Student of the Year, engaging 100+ attendees	
• Recognized for ownership and execution quality, leading to promotion as Public Relations Head for the 2024-25 term	
Achievements & Certifications	

- Ranked among the **Top 100 (top 0.01%)** at Techkriti Open School Championship 2020, IIT Kanpur
- Secured **First Place** at the ASISC-UP & Inter-UK Quiz 2020, outperforming **35 competing teams**
- Achieved **7th position statewide** in SilverZone Science Olympiad 2016 (**99th percentile**)
- Certified **AWS Cloud Practitioner** (Amazon Web Services)