

# PRABHAV SRIVASTAVA

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## Education

### B.Tech in Information Technology (CGPA: 8.25)

VIT Vellore

Aug 2022 – May 2026

Vellore, India

### XII (ISC); Percentage: 95.25%

Sheiling House School

Apr 2021 – Jul 2022

Kanpur, India

### X (ICSE); Percentage: 96.80%

Sheiling House School

Apr 2019 – Jul 2020

Kanpur, India

## 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

Hindustan Aeronautics Limited (HAL TAD)

India

- 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 | React, Node.js, Express, Groq LLM API

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 | Python, Scikit-Learn, NumPy, Pandas

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

IEEE Professional Communication Society (PCS), VIT Vellore

India

- 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

Apr 2023 – Mar 2024

IEEE PCS, VIT Vellore

India

- 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)