



V. SAHANA

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 [Portfolio](#)

Perambalur, Tamil Nadu
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OBJECTIVE

Final-year B.Tech CSE (Cyber Security) student proficient in **Python, Java, SQL**, and AI/ML. Hands-on experience in building real-time ML solutions and deploying models using **Edge Impulse** and **ESP32-CAM**. Passionate about research-driven innovation with proven leadership skills and confident public speaking abilities.

EDUCATION

Kalasalingam Academy of Research and Education, Krishnan Koil

2022 – Present

Bachelor of Technology in Computer Science and Engineering (CGPA – 8.7/10.0)

[Virudhunagar, T.N.]

Cauvery Matriculation Higher Secondary School, Bharathi Nagar

2020-2022

HSC – Class 12 (Percentage: 88%)

[Trichirapalli, T.N.]

Cauvery Matriculation Higher Secondary School, Bharathi Nagar

2019-2020

SSLC – Class 10 (Percentage: 83%)

[Trichirapalli, T.N.]

SKILLS AND INTERESTS

- **Programming:** Python, Java, C/C++
- **Database:** SQL
- **AI/ML:** Machine Learning, Edge Impulse
- **Soft Skills:** Leadership, Team Management, Confident public speaking, Problem Solving, Adaptability, Collaboration

PROJECTS

Legal & Ethical Issue Identifier (Python, HTML, CSS, JavaScript, SQL)

[GitHub](#)

- Developed a Python-based legal issue detector using text similarity algorithms.
- Mapped queries to Indian laws for instant legal references.
- **Contributions:** Designed algorithm logic, integrated database, and optimized search accuracy.

Plastic Detection using ESP32-CAM and Machine Learning (Python, Edge Impulse, ESP32-CAM, OLED)

[GitHub](#)

- Built a real-time plastic classification system using a CNN trained in Edge Impulse.
- Deployed model on ESP32-CAM with OLED display for live detection feedback.
- **Contributions:** Collected dataset, trained ML model, implemented ESP32-CAM integration.

CERTIFICATIONS

- Cyber Threat Management — Cisco
- Networking Basics — Cisco

[Link](#)

[Link](#)

POSITION OF RESPONSIBILITY

Event Coordinator | ACM KARE (2024)

- Coordinated and managed technical events, workshops, and competitions, ensuring smooth execution and participant engagement.
- Collaborated with faculty and student teams to plan event logistics, handle registrations, and promote activities through effective communication channels.

ACHIEVEMENTS

- **Winner** — Paper Presentation on AI-Based Plastic Detection, Anna University Regional Campus, Coimbatore

LANGUAGES

- English (Fluent)
- Tamil (Native)
- Hindi, French (Basic)