

ASHNA A S

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Summary

Computer Science Engineering student specializing in Artificial Intelligence, Data Science, Edge AI, and Multimodal Deep Learning. Experienced in offline-capable AI, real-time ML systems, wellness monitoring models, and full-stack development. Passionate about AI for multilingual and low-literacy populations in public health and safety applications.

Education

SRM Institute of Science and Technology, Ramapuram 2023 – 2027 B.Tech in Computer Science and Engineering
CGPA: 9.45/10

Boys Higher Secondary School, Karunagappally

2022 Class XII — **96%**

Girls High School, Karunagappally

2020 Class X — **90%**

Technical Skills

Programming: Python, Java, JavaScript, C++, SQL **AI/ML:** TensorFlow, PyTorch, Scikit-Learn, Pandas, NumPy, OpenCV **Deep Learning:** CNN, ANN, LSTM, Multimodal Models, Edge AI **Development:** React, Node.js, Flask, PostgreSQL, REST APIs **Tools:** Git, GitHub, Docker, Google Colab, Jupyter

Soft Skills

Problem Solving • Communication • Team Collaboration • Analytical Thinking • Critical Thinking

Experience

Intel Unnati Industrial Training Program — Intern

3 Months, 2025

- Developed a **multimodal AI-powered system** for remote worker well-being monitoring.
- Designed proactive and personalized intervention mechanisms.
- Built Edge-AI optimized models for offline privacy-preserving execution.

SIH 2025 Finalist — Jala Suraksha

Aug 2025 – Dec 2025

- Built a **smart water quality monitoring system** with IoT sensors.
- Used ML models for anomaly detection and contamination prediction.
- Implemented Firebase alerts and a real-time monitoring dashboard.

Web Developer Intern — Keltron Technologies (Govt. of Kerala)

Dec 2024 – Mar 2025

- Developed UI modules and dashboards for government platforms.
- Built secure backend features and integrated REST APIs.

Technical Team Member — Intellects Club, SRM IST

2023 – 2024

- Organized workshops, coding events, and collaborative technical activities.

Major Projects

“Bridging the Digital Divide with AI” — TB Triage System

- Developed a **multimodal AI triage system** for multilingual and low-literacy users.
- Designed offline-capable pipelines suitable for rural healthcare settings.

SHIAK — 3D BIPV Simulator (SIH 2024)

- Built an interactive tool for assessing BIPV solar potential using 3D city models.
- Implemented shadow simulation and energy mapping using Node.js backend.

Sensor-Based Disease Prediction Monitoring System

- Created a Flask-based ML backend for real-time disease prediction.
- Integrated multiple sensors to generate early health alerts.

Languages

English • Malayalam • Tamil • Hindi • Urdu