

Sarath Kumar NVS

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Education

Vasavi College of Engineering, Hyderabad

Oct 2022 – June 2026

B.E. in Computer Science and Engineering

CGPA: 8.5 / 10

IIT Madras (Online Degree)

Oct 2022 – Present

B.Sc. in Data Science and Applications

Profile

Innovative and hands-on Computer Science undergrad passionate about building impactful software systems. Strong focus on real-time applications, AI integration, and full-stack engineering. Proficient in modern stacks and driven by curiosity and the urge to solve meaningful problems.

Skills

Languages: Python, Java, C

Web & Frameworks: Flask, FastAPI, VueJS, JavaScript, Ruby on Rails, Streamlit

Databases: MySQL, MongoDB

AI/ML Tools: OpenCV, MediaPipe, LangChain, FAISS, Ollama, Crew AI

DevOps & Tools: GitHub, JWT, Celery, Redis, AWS (VPC, IAM, ELB)

Projects

Sign Language to LLM Interface — Flutter, OpenCV, MediaPipe, Ollama

Jul 2024

- Built a real-time sign language interpreter with <16ms latency
- Achieved alphabet coverage under varied lighting; connected gestures to LLM for Q&A

AI-Powered Research Assistant — Crew AI, FastAPI, LangChain, FAISS, Ollama

- Simulated multi-agent research behavior with locally hosted LLMs
- Enabled semantic document search using FAISS and LangChain parsing
- Deployed FastAPI backend for secure multi-user access

Household Services Platform — Flask, VueJS, Redis, MySQL

Jan 2024

- Built secure REST APIs with JWT and background tasks via Celery & Redis
- Created responsive VueJS frontend; integrated SMTP-based email service

Experience

Backend Developer — Aathi Yoga (Remote)

Jan 2025 – Present

- Developing Ruby on Rails REST APIs with MySQL and JWT authentication

Research Intern — IIT BHU (Remote/Hyderabad)

Dec 2024 – Feb 2025

- Implemented Swin Transformer and saliency test methods for explainability

UI/UX Intern — Mantrick Studios

Oct 2023 – Dec 2023

- Designed 5 Figma wireframes; built static frontend with HTML/CSS/JS

Extracurriculars

Department Head — Swayam AI/ML Club, Vasavi College

2024 – 2025

Led AI workshops, mentored project teams, and organized peer-learning sessions.

Smart India Hackathon — Stage 1 Participant

2022 & 2023

Selected for idea stage with real-world problem-solving proposals.

AWS Workshop (VPC, ELB, IAM)

Feb 2025

Completed hands-on setup and deployment sessions on cloud networking and security.