Sarath Kumar NVS

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Education

Vasavi College of Engineering, Hyderabad   *Oct 2022 – June 2026*
B.E. in Computer Science & Engineering
CGPA: 8.5 / 10

IIT Madras (Online Degree)   *Oct 2022 – Present*
B.Sc. in Data Science & Applications

Profile

Innovative and hands-on Computer Science undergrad passionate about AI, real-time systems, and full-stack development. Strong problem-solver who blends performance, usability, and creativity across modern software stacks.

Skills

Languages: Python, Java, C
Frameworks: Flask, FastAPI, VueJS, Ruby on Rails, Streamlit
Databases: MySQL, MongoDB
AI/ML Tools: OpenCV, MediaPipe, LangChain, FAISS, Ollama, Crew AI
Tools: GitHub, JWT, Celery, Redis, AWS (VPC, IAM, ELB)

Projects

Sign Language to LLM Interface — Flutter, OpenCV, MediaPipe, Ollama   *Jul 2024*
Built real-time gesture interpreter (<16ms/frame); connected output to LLM for natural Q&A.

AI Research Assistant — Crew AI, FastAPI, LangChain, FAISS, Ollama
Simulated multi-agent behavior; implemented semantic doc search and built secure API backend.

Household Services Platform — Flask, VueJS, Redis, MySQL   *Jan 2024*
Built JWT-auth Flask API, Redis/Celery jobs, and VueJS frontend with email notifications.

Experience

Backend Developer — Aathi Yoga (Remote)   *Jan 2025 – Present*
Developing Ruby on Rails APIs with JWT and MySQL integration.

Research Intern — IIT BHU   *Dec 2024 – Feb 2025*
Implemented Swin Transformer and saliency methods for explainable vision tasks.

UI/UX Intern — Mantrick Studios   *Oct – Dec 2023*
Designed 5 Figma wireframes; built HTML/CSS/JS prototypes for client demos.

Extracurriculars

Head — Swayam AI/ML Club, Vasavi   *2024 – 2025*
Led project teams, ran AI workshops, and mentored juniors.

Smart India Hackathon — Stage 1   *2022, 2023*
Shortlisted for real-world industry problem-solving proposals.

AWS Cloud Workshop   *Feb 2025*
Hands-on deployment of VPC, IAM, ELB, and subnet configurations.