SARATH KUMAR NVS

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EDUCATION

Vasavi College of Engineering, Hyderabad, India   *B.E. in Computer Science and Engineering*
Oct 2022 - June 2026   GPA: 8.5
IIT Madras Online Degree Program, Online   *B.Sc. in Data Science and Applications | Diploma In ProgrammingOct 2022 - Apr 2025*

SUMMARY

Highly motivated Computer Science undergrad with a strong foundation in AI/ML and full-stack development. Proven ability to develop innovative solutions, as demonstrated by projects in LLMs and AI-powered applications. Seeking a challenging internship to contribute to cutting-edge projects.

SKILLS

Programming Languages: C, Java, Python**Databases:** MySQL, MongoDB**Technologies:** AI, ML, GenAI, AWS, GitHub, NoSQL, RDBMS, Flutter, webRTC

PROJECTS

Sign Language Based LLM | July 2024
Developed a real-time sign language recognition system using OpenCV and MediaPipe to improve communication accessibility. Achieved 95% accuracy in recognizing 26 characters under varied lighting conditions with a processing speed of <16ms/frame. Integrated the recognition system with an LLM for query-response generation.
Technologies Used: Flutter, OpenCV, MediaPipe, Ollama

AI-Powered Research Assistant | 2024
Created AI agents using Crew AI to automate research tasks, enabling efficient processing of local PDFs and documents. Leveraged Ollama-based LLMs for document analysis and FAISS for fast vector search and retrieval. Built a FastAPI backend to provide a user-friendly interface.
Technologies Used: Crew AI, FastAPI, Lang Chain, FAISS, Ollama

Household Services App | Jan 2024
Developed Flask APIs and integrated a SQLite database for managing household services. Built the frontend with VueJS and implemented SMTP email service, JWT-based authentication, and SwaggerUI for documentation. Used Redis and Celery for background tasks and caching, and implemented webRTC-based video streaming.
Technologies Used: Python, Flask, MySQL, Redis, Celery, webRTC, VueJS

INTERNSHIPS

IIT BHU, Hyderabad, Online   *Research Intern*
Dec 2024 Implemented Swin Transformer and saliency test methods; contributed to result interpretation.
Aathi Yoga, Hyderabad, Online   *Backend Developer*
2025 Developed REST APIs in Ruby on Rails with JWT and MySQL integration.
Mantrick Studios, Hyderabad, Online   *Head UI Designer*
Oct 2023 Designed 5 wireframes in Figma for client applications.Built initial versions of websites using HTML, CSS, and JS.

EXTRACURRICULAR

Vasavi College of Engineering, Hyderabad   *Department Head, Swayam AI/ML Club*
2024 - 2025

Smart India Hackathon Participant (Stage 1)
2022   2023

AWS Workshop Participant
Feb 10-14, 2025   VPC, ELB, IAM, Subnet Setup Practice