HARESH SAINAATH S

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PROFESSIONAL SUMMARY

Computer Science Engineering student (AI & ML) at Sri Krishna College of Technology (CGPA 8.13/10; expected Aug 2028). Builds production-grade AI systems: LLM-powered agents, multi-agent orchestration, RAG pipelines, computer vision and generative AI platforms. Experienced with vector databases and cloud AI deployment on Azure, GCP and AWS. Three internships across Dendo, Tenneco and Codsoft, with Nexa Ride shipped to the Apple App Store. Reskill Campus Ambassador for Sri Krishna College of Technology.

SKILLS

AI / Machine Learning: Generative AI, Large Language Models (LLM), Agentic AI, Multi-Agent Systems, RAG, Prompt Engineering, Fine-Tuning, Reinforcement Learning, Computer Vision, NLP, TensorFlow, AutoGluon, Scikit-learn, OpenCV, YOLO, PyTorch, MediaPipe, ONNX
AI Frameworks & Tools: Google ADK, LangChain, LangGraph, CrewAI, n8n, Claude Code, Codex, Antigravity, Microsoft Foundry, Google AI Studio, Hugging Face Transformers, MCP
Cloud & DevOps: Microsoft Azure (Azure ML, Azure OpenAI, Cognitive Services), GCP (Vertex AI, Gemini API), AWS (SageMaker, Bedrock, EC2, S3), Docker, Kubernetes, CI/CD
Languages & Frameworks: Python, Java, FastAPI, Flask, Django, React, Next.js, Spring Boot, JavaScript, TypeScript, React Native, Tauri
IoT & Robotics: ROS 2 Jazzy, Gemini Robotics, NVIDIA Jetson Nano, Edge AI
Databases: MongoDB, PostgreSQL, MySQL, Pinecone, ChromaDB, Firebase
Data Science & Visualization: Data Visualization, Pandas, NumPy, Matplotlib, Seaborn, Plotly, Tableau
Tools: Git, GitHub, Linux, Jira, Confluence, Figma

WORK EXPERIENCE

Mobile Application Developer Intern, Dendo — **June 2026 - August 2026**

- Built and shipped Nexa Ride, a full-stack ride-hailing app on the Apple App Store with ride booking across 15+ screens and REST API integration (React Native, AWS).
- Completed end-to-end testing on iOS and Android and handed the production app to Dendo, which now maintains and continues the project.

Software Engineering Intern, Tenneco, Hosur — **May 2026 - June 2026**

- Engineered a voice-driven desktop application (Tauri, React, Python) that populates maintenance-database forms from speech, automating manual data entry.
- Delivered 2 applications as the sole developer in a 1-month internship, eliminating an estimated 15 hours/week of repetitive form entry.

Machine Learning Intern, Codsoft — **July 2025 - August 2025**

- Trained and evaluated 3 machine-learning models in Python and TensorFlow on 25,000+ records, reaching 90-94% predictive accuracy.
- Built interactive visualization dashboards that surfaced key trends and guided iterative model tuning.

Campus Ambassador, Reskill (Sri Krishna College of Technology) — **Present**

- Represent Reskill on campus: drive student outreach, promote learning programs and events, and serve as the college point of contact for Reskill initiatives.

PROJECTS

Nexa Ride, Ride-Hailing Mobile App (Dendo) — **June 2026 - August 2026**

- Shipped a ride-hailing app to the Apple App Store with booking flows across 15+ screens, then handed production maintenance to Dendo. React Native, AWS, REST APIs.

Voice Docs Assistant, MCP-Powered LLM-to-DB System

- Built a custom MCP server exposing database tools so an LLM chat client can query live SQL/NoSQL data via natural language, with VS Code client and multi-turn tool routing. Python, MCP, LLM, REST API.

XRPLOT-AI, 360° XR Environment Platform — **May 2026 - June 2026**

- Co-built a 360° XR environment platform with modular spatial AI, generative AI voice and chat, and a node-based canvas; CSC Impact Honorable Mention. Next.js, FastAPI, Google ADK.

THOR, AI Tourism Safety Platform — **March 2026**

- Co-built an AI platform with personalized trip planning, live risk-zone safety maps, SOS alerts, multilingual chatbot and voice assistant, and an enterprise command center.

Aura, Edge-AI Driver-Safety Copilot

- Built a real-time driver-safety system with MediaPipe signal fusion, a multi-agent orchestrator and on-device RAG for alert explanations. FastAPI, React, Unity, MediaPipe, Ollama, ONNX.

Prahari, Offline Network Operations Copilot

- Built an air-gapped AI copilot for MPLS/SD-WAN ops with statistical fault prediction and hybrid RAG over local runbooks. Python, Offline RAG, Conformal Prediction, Digital Twin.

Real-Time AI Voice Agent

- Developed a telephony voice agent connecting Twilio Media Streams to Gemini Live with barge-in handling and tool-calling. Python, FastAPI, Gemini Live API, Twilio, WebSockets.

Project Dukaan AI, Multimodal Ledger OCR

- Implemented CRNN-CTC handwriting OCR and an LSTM demand forecaster in PyTorch with a FastAPI and Next.js application. PyTorch, FastAPI, Next.js.

Question Paper Generator, RAG and MCP

- Designed a RAG and MCP system that embeds past question papers and exposes retrieval as LLM-callable tools to generate practice papers. Python, Vector DB, LLM, MCP.

Lantern, End-to-End Encrypted Companion App

- Built a cross-platform PWA and mobile app with client-side Curve25519 E2E encryption, encrypted media pipeline and SOS beacon. React, React Native (Expo), Firebase, TweetNaCl.

Other Projects **November 2024 - October 2025**

- AutoFlow: React/FastAPI LLM-gateway chat. SpamShield: Dockerized FastAPI + Scikit-learn classifier. ShopSphere: MERN e-commerce. TaskVault: FastAPI + PostgreSQL JWT API.

EDUCATION

B.E. Computer Science & Engineering (AI & ML), Sri Krishna College of Technology **2024 - 2028**

CGPA: 8.13 / 10. Coursework: Deep Learning, Neural Networks, Computer Vision, NLP, Reinforcement Learning, MLOps, Big Data Analytics, Cloud Computing, Distributed Systems.

CERTIFICATIONS

- Gemini Certified Student, Google | Google AI Essentials, Google
- 5-Day AI Agents Intensive Course, Kaggle with Google | Claude Code 101, Anthropic | AI Fluency: Framework & Foundations, Anthropic
- Career Essentials in Generative AI, Microsoft & LinkedIn | Career Essentials in Software Development, Microsoft & LinkedIn
- Getting Started with AI on Jetson Nano, NVIDIA | AI & ML with AI PC Program, IISc Bangalore with Intel
- C++ Programming Professional Certificate, OpenEDG C++ Institute | Agile Certification, Great Learning

AWARDS & ACHIEVEMENTS

- CSC Impact Honorable Mention, CSC Summer Impactathon 2026, Devpost (August 2026) - XRPLOT-AI team.
- Winner, Engineers' Day Project Competition 2026, DR.ENGINE, Sri Krishna College of Engineering and Technology.
- Ideathon Finalist, IEEE Returning Mothers Conference; attended the finale event in Hyderabad.
- Many cash prizes in Workshops at several college events.
- National Finalist, Smart India Hackathon (SIH); Finalist, MSME national competition.
- Participated in 50+ college-level hackathons, with entries in NVIDIA OpenIndia, Qualcomm, Samsung Hack for Tomorrow, Tata InnoVent and ISRO Bharatiya Antariksh national competitions.
- District-level cricket (Krishnagiri); 30+ prizes in art, elocution, essay writing, science exhibitions and sports.
- Owner of 60+ project GitHub repositories.