

Sakthivel E

Hosur, Tamil Nadu

+91 94872 92520 | sakthivel.hsr06@gmail.com | linkedin.com/in/sakthivel-e | github.com/SAKTHIVEL280 | sakthivel.daeq.in

EDUCATION

K.S. Rangasamy College of Technology

Tiruchengode, Tamil Nadu

B.E. Computer Science & Engineering (AI & ML) – CGPA: 8.66 / 10.0

2023 – 2027

– Relevant Coursework: Deep Learning, Neural Networks, Data Structures, Database Management Systems

TECHNICAL SKILLS

Languages: Python, Java, C, SQL, HTML/CSS

AI / ML: TensorFlow, Keras, Scikit-learn, OpenCV, YOLO, LLM Integration, AI APIs

Backend & Infra: FastAPI, Flask, PostgreSQL, Supabase, Vercel, Convex

Tools: Git, GitHub, Antigravity CLI, Claude Code, Google Colab, UiPath, ComfyUI, Stable Diffusion

EXPERIENCE

AI Engineer Intern

Jul 2025 – Oct 2025

Certainiti.ai – AI-powered R&D Tax Credits SaaS platform

On-Campus

- Built production ready modules for an Agentic Interaction system, enabling automated document-analysis workflows on the enterprise platform.
- Engineered an end-to-end AI-driven interview module integrating LLM-backed question generation with structured response capture and bounded conversational memory.
- Developed Python ML backend services and produced performance benchmarks and technical documentation for deployed models.

AI & ML Intern

Feb 2026 – Apr 2026

Mecandria IT Services and Solutions LLP

Hosur, Tamil Nadu

- Co-developed Mecandria ERP, a production-grade inventory management system covering purchase, sales, stock, GST-aware reporting, and receivables/payables, deployed for live clients.
- Contributed backend logic and PostgreSQL schema design, including schema migrations; also implemented frontend features using AI coding agents.
- Led a security audit uncovering 14 critical/high-severity vulnerabilities (IDOR, hardcoded secrets, insecure token storage); directed and validated remediation prior to client handoff.

PROJECTS

VoiceSOP | *Next.js, Supabase, Gemini 2.5 Flash, Groq, Razorpay* | voicesop.daeq.in

2026 - Ongoing

- Built a B2B SaaS that converts voice recordings into structured SOPs, using Groq for free-tier users and Gemini 2.5 Flash for premium users, with real-time transcription via the browser Speech API.
- Implemented tiered subscription pricing (Free/Pro/Team) with Razorpay payments and Supabase authentication, including team management and SOP execution workflows.

Redactify | *Next.js, React, Python NLP, Razorpay* | redactify.daeq.in

2026

- Built a privacy-first PII redaction tool that runs entirely in-browser, with no data sent to external servers.
- Designed a local detection pipeline using a fine-tuned RoBERTa model to identify sensitive entities (names, emails, phone numbers, address); redaction module locates and overlays matches to remove recoverable text.

Groundwork | *Next.js, JavaScript, Supabase* | groundwork.daeq.in | MIT Open Source

2026

- Built a free developer planning tool with templates for SaaS apps, mobile apps, CLI tools, API backends, and portfolios; released as MIT-licensed open source.

Drone-based Crop Disease Detection | *Python, YOLO, DeepLabV3+*

2025

- Developed a drone-based aerial AI pipeline using YOLO to detect and isolate crop regions from other objects in frame (e.g. people, scarecrows), triggering high-resolution capture of the identified crop area, followed by DeepLabV3+ semantic segmentation to classify and localize disease patches.
- Validated the pipeline at the Bhumi Hackathon, reducing manual field-inspection effort through automated detection.