

KARTHIKEYAN S

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Chennai, India

SUMMARY

AI & Machine Learning Engineer with hands-on experience in Deep Learning, Computer Vision, Generative AI, Robotics, IoT, and Data Analytics. Skilled in developing AI-powered applications using Python, PyTorch, TensorFlow, OpenCV, AWS, and RAG systems through projects, internships, and research. Passionate about building scalable, real-world solutions that solve practical problems and deliver business value.

EDUCATION

B.E. in Computer Science and Engineering (AI & ML) | Annamalai University, India | 2026 | First Class | **68.4%**

HSC | Saraswathi Matriculation Higher Secondary School | 2022 | **84.8%**

SSLC | Saraswathi Matriculation Higher Secondary School | 2020 | **78.6%**

EXPERIENCE

Live Stream Technologies, Coimbatore | Generative AI Intern

May 2025 - Jun 2025

- Developed GAN, VAE, and Transformer-based models for image synthesis, text generation, and chatbot applications, applying fine-tuning and hyperparameter optimization techniques.

Techplement, Remote | Web Development Intern

Apr 2024 - May 2024

- Developed and deployed responsive websites using HTML, CSS, JavaScript, and GitHub Pages, ensuring cross-device compatibility and user-friendly interfaces.

CORE COMPETENCIES

- Python, SQL, JavaScript, HTML, CSS | ML, DL, NLP, Gen AI, LLMs, Prompt Engineering, CV, Model Deployment, CNNs, RNNs, GANs | LangChain, RAG, MCP, TensorFlow, PyTorch, Transformers, LSTM, REST APIs | Flask, React, AWS, Oracle Cloud | Pandas, NumPy, Matplotlib, Excel, Power BI | Git, GitHub, Jupyter Notebook

PROJECTS

BuildScan Rover – AI-Based Autonomous Robot for Indoor Structural Health Inspection Dec 2025 - May 2026

- Developed an AI-powered autonomous rover integrating Robotics, IoT, Computer Vision, and Deep Learning for real-time structural crack detection; deployed YOLOv26n-seg with CUDA/cuDNN GPU acceleration for crack segmentation, severity analysis, live monitoring, and automated PDF report generation. | [GitHub](#)

Publication: [ICICEA'26](#), A.V.C. College of Engineering

LexAI – Legal & Cyber Law Intelligence Platform

Mar 2026 - Jul 2026

- Designed a Retrieval-Augmented Generation (RAG) platform for legal and cybersecurity queries using LLMs and semantic search, with a document intelligence pipeline built using LangChain, Ollama, and Flask. | [GitHub](#)

Result Awareness System – FEAT Academic Utility Platform

Oct 2025 - Nov 2025

- Built an academic utility platform supporting 2,400+ course records across 13 dept. and 8 sem., implementing CGPA/GPA calculation, PDF report generation, semester planning, and academic performance analysis. | [GitHub](#)

CERTIFICATIONS

- Python Programming - LIVEWIRE India (2023)
- AWS Cloud Deployment - NxtWave
- Salesforce Agentblazer - Trailhead

ACHIEVEMENTS

- AI Symposium Organizer - Coordinated a technical symposium with 100+ participants
- General Secretary - CSEA - Annamalai University, 2023 - 26 - led technical events, symposiums, and student programs
- COMPSEM'26 & NETSPORTS'25 - 26 - Lead Managed multi-event coordination under CSEA, Annamalai University

WORKSHOPS

- Quantum Computing FDP - SRMIST Tiruchirappalli, EICT-IIT Roorkee
- IoT National Workshop - Annamalai University, RESI 4
- Blockchain Workshop - Shiv Nadar University, Chennai