

LOKESHWARAN S

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Portfolio: https://lokesh-portfolio-rho.vercel.app/ | Open to Relocation | Open to Remote

PROFESSIONAL SUMMARY

AI Engineer with hands-on experience in Generative AI, LLM fine-tuning, RAG pipelines, and Transformer-based architectures. Built and deployed end-to-end AI systems using FastAPI, Docker, LangChain, and LlamaIndex, with a strong focus on scalability and reliability in real-time applications.

TECHNICAL SKILLS

AI & Machine Learning: Machine Learning, Deep Learning, Generative AI, Vision-Language Models (VLM), Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), Agentic AI

AI Tools & Frameworks: LangChain, LangGraph, LlamaIndex, CrewAI, Hugging Face, LoRA Fine-tuning, Prompt Engineering, Vector Databases, AI Automation, n8n Automation, TTS, STT

Backend, MLOps & Cloud: FastAPI, API Development, Docker, Linux, MLOps, DevOps, Model Versioning, Cloud Deployment, Google Cloud Platform (GCP), Azure Cloud Platform, Github

EXPERIENCE

AI Engineer (Internship) – Iglowsoft Pvt Ltd, Chennai

June 2025 - July 2025

- Fine-tuned an LLM using LoRA with RAG on textbooks, enabling a high-accuracy NEET tutor across 500+ topics. Deployed a FastAPI backend for real-time multilingual Q&A with sub-second latency.

Generative AI Engineer – KarunyaHacks, Coimbatore

Dec 2024 - Present

- Developed and deployed multiple Generative AI and Agentic AI prototypes through hackathons and collaborative innovation projects.
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PROJECTS

Tamil Story Generator using LLM (StartupTN Hackathon Winner)

- Designed a GenAI system to generate Tamil story and ad content, producing 1,000+ outputs with integrated Tamil TTS.

Medical Handwritten Prescription Extraction (VLM)

- Fine-tuned a Vision-Language Model to extract handwritten prescriptions with 97% accuracy and convert them into structured JSON for EMR integration.

Tamil Nadu Citizen Services Chatbot

- Developed a bilingual (Tamil/English) RAG chatbot using a fine-tuned LLM with real-time translation for accurate government service Q&A.

AI Agent for Company Enquiry using LlamaIndex

- Built a context-aware LLM agent using LlamaIndex and LangChain for company info retrieval.
 - Deployed via FastAPI, Docker, and Azure for multi-turn conversations and automated inquiries.
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EDUCATION

Karunya Institute of Technology and Sciences, Coimbatore

July 2023 - April 2027

- Bachelor of Technology in Computer Science and Engineering (AI Specialization)
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ADDITIONAL INFORMATION & ACHIEVEMENTS

Awards: 2nd Prize – StartupTN “Tamizhi” Language Technology Hackathon

Languages: English, Tamil

Activities: Member, Rotaract Club, Karunya University

Certifications:

- DeepLearning.ai – Machine Learning, LangChain | Cisco NetAcad – Programming in C and Python
- Infosys – IoT, Java, Generative AI | NVIDIA – Generative AI | NPTEL - English