

Ariharasudhan S

AI/ML/Deep Learning Engineer

📍 Chennai, India 📞 +91 6382509390 ✉ aravindariharan@gmail.com 🌐 ariverse.in 🔗 linkedin.com/in/arihara-sudhan

AI/ML Engineer building deep-learning and agentic systems from experimentation through production, with experience across multimodal learning, few-shot learning, RAG, browser automation, and applied AI.



Technical Core

ML/Deep Learning	PyTorch, CNNs, ResNet, ViT/DiT, BERT, metric learning, triplet/contrastive loss, few-shot learning, multimodal fusion, audio classification
AI Systems	RAG, FAISS, Hugging Face LLMs, Gemini, MCP servers, conversational AI, tool-driven agents, natural-language-to-Cypher
Engineering/Data	Python, FastAPI, Java, JavaScript, React, Node.js, SQLAlchemy, Playwright, UiPath, AWS, MySQL, MongoDB, Neo4j, Git

Experience

Moative

AI/ML Engineer

Chennai, India

Jun 2025 – Present

- Built **SHREW**, an AI-powered low-code browser automation platform that records workflows as editable JSON recipes and executes them through Playwright-based runners, with intelligent selector fallback and recovery for resilient workflow execution.
- Engineered a **HIPAA-compliant UiPath pipeline** that processed **2,500+ claims** and reduced a month-long revenue-cycle workflow to **two days**, with LLM-generated summaries for downstream review.
- Built **Courier Voice**, integrating ElevenLabs with MCP servers to trigger SHREW workflows through voice commands and parallel task execution.
- Shipped AI platforms for **CRM intelligence, CEQA compliance, and clinical-trial analysis** using FastAPI, OCR/NLP, Gemini, SQLAlchemy, Neo4j, natural-language-to-Cypher, and AWS.

Zoho Corporation

Member Technical Staff, ZLabs + Zoho Desk

Tamil Nadu, India

Jan 2023 – May 2025

- Researched **few-shot document representation learning** from ResNet-50 to DiT embeddings with triplet-loss training; reached **100% similarity-search accuracy on well-labeled evaluation data** and investigated retrieval vs. classification behavior.
- Built a **multimodal document classifier** by fusing ResNet visual representations with BERT textual features to improve generalization beyond single-modality approaches.
- Conducted **CNN-based audio classification**, working through sampling-rate variation, feature extraction, and practical audio-engineering constraints.
- Worked on a **FAISS + Hugging Face LLM RAG system** for Zoho Desk while shipping production JavaScript/React features; mentored peers on JavaScript internals, functional programming, React, and TypeScript.

Selected Technical Work

Few-Shot Classify Anything

Built an embedding-based few-shot classifier using a Swin Transformer, triplet-loss training, and similarity search over stored exemplars for low-data recognition.

Vision / Metric Learning

Grouped Detection of Objects

Combined YOLO detection, ROI cropping, Swin-based few-shot classification, K-means grouping, and a FastAPI real-time prediction service.

Detection / Few-Shot / Serving

AI Powered MediKit for Healthcare Units

Built a multimodal healthcare AI system spanning medical images, audio, and text using Vision Transformers, CNNs, and embedding-based methods under limited data and compute constraints.

Multimodal Healthcare AI

Genie-Phenie

Explored CRISPR-inspired gene screening by treating DNA sequences as language and applying machine learning and transformer-based methods to model, analyze, and detect anomalies in genomic sequences.

Genome Sequence / CRISPR In-Silico

Education & Public Work

Einstein College of Engineering — M.E. Computer Science and Engineering, GPA **8.88/10**

2025 – 2027

Einstein College of Engineering — B.E. Computer Science and Engineering, GPA **8.97/10**

2019 – 2023

Technical teaching — Delivered hands-on sessions on deep learning, CNNs, backpropagation, RAG, LLM APIs, and agentic AI across engineering colleges; publish experiments and technical notes at **ariverse.in**.