

K. Lakshiita

lakshiitakalyanasundaram@gmail.com | +91 8904523184 | github.com/lakshiitakalyanasundaram |
linkedin.com/in/lakshiita-kalyanasundaram-651a7b275 | Bengaluru, India

PROJECTS

SkinScan

TensorFlow, Keras, OpenCV

Built a CNN-based classifier for skin disease detection, improving diagnostic accuracy by **15%** using augmentation and preprocessing on 5,000+ medical images.

DeepFake Audio Detection

HuggingFace, CNN, LSTM, wav2vec2

Designed a system to identify synthetic audio, achieving **92% accuracy** through spectrogram analysis with CNN + LSTM models.

Agri Guard

CNN, Image Processing

Deployed a plant disease prediction model with **94% classification accuracy**, helping minimize crop yield loss via early disease detection.

EduFlash

Generative AI, FastAPI, Gemini API

Engineered a flashcard generator converting educational PDFs into interactive content; boosted study efficiency for test users by **20%**.

Digital Lock and Key

ESP32, STSAFE A110, Arduino IDE

Implemented a secure lock system using public-private key encryption, reducing authentication latency by **30%** while enabling subscription-based access control.

Custom Pet Feeder

IoT, ML, Real-time Monitoring

Created an adaptive IoT-based pet feeder with ML-driven scheduling, supporting **24/7 real-time monitoring** and improving feeding consistency.

WORK EXPERIENCE

KMPS Digi Infra Private Limited AI/ML Intern

05/2025–08/2025 | Chennai, India

- Built an AI-powered legal website integrating OpenAI APIs with RAG, automating summarization of 10,000+ case documents and delivering context-aware legal insights.
- Developed a scalable full-stack solution with React (frontend) and Supabase (database), enabling secure data storage and efficient query handling at scale.
- Optimized prompt engineering and retrieval pipeline design, improving legal document response accuracy by **25%** and enhancing user experience.

Atsuya Technologies Embedded Engineer Intern

06/2023–07/2023 | Chennai, India

- Designed a secure digital lock-and-key system with ESP32 + STSAFE A110, implementing asymmetric cryptography and subscription-based access control.
- Engineered UART-based communication between dual ESP32 boards, achieving **zero data leakage** across 1,000+ secure exchanges.
- Integrated hardware-software feedback systems (LED indicators) and STSAFE-based key management, showcasing practical IoT security applications.

SKILLS

Development: Machine Learning, Deep Learning, Generative AI, LLMs, NLP, IoT
Frameworks: TensorFlow, PyTorch, HuggingFace, Scikit-learn, React, Node.js, FastAPI, Flask
Programming: Python, C, C++
Database: Supabase, PostgreSQL
Soft Skills: Communication, Problem-Solving, Collaboration, Adaptability

EDUCATION

SRM Institute of Science and TechnologyB.Tech in Computer Science (AI & ML Specialization)
2022–2026
Chennai, India CGPA: 8.0

CERTIFICATES

- NPTEL: Machine Learning (Nov 2024)
- NPTEL: Database Management (May 2024)
- NPTEL: Industry 4.0 & IIoT (May 2024)
- AWS Academy: Machine Learning Foundations (Feb 2024)