

Lakshiita Kalyanasundaram

+918904523184 <https://lakshiitakalyanasundaram.vercel.app/> lakshiitakalyanasundaram@gmail.com [lakshiitakalyanasundaram](#)
[K Lakshiita](#)

Education

SRM Institute of Sciences and Technology
CSE AIML
8.0
<https://www.srmist.edu.in/>

Expected Graduation , June 2026
Engineering

Experience

ATSUYA TECHNOLOGIES
Embedded Engineer Intern
<https://atsuyatech.com/>

June2024-July2024
Chennai, India

Worked on Digital Lock and Key using encryption and decryption .Led the entire firmware side of the project by myself .

Projects

Digital Lock and Key
Embedded Engineering , ATSUYA TECHNOLOGIES

June 2024-July 2024

Developed a secure digital lock system using STSAFE A110 and ESP32, enhancing security and access control. Implemented encryption, subscription-based keys, and Arduino IDE integration to optimize key management and data integrity. Improved encryption techniques to ensure robust data protection, enabling secure and controlled digital lock access.

Encryption, Decryption, Cryptography, ST-Safe A110

Comment Toxicity Detection
Machine Learning

December 2024

Developed an AI system for toxic comment detection and classification, integrating the Meta-Llama model for precise toxicity analysis and feedback. Built an interactive Streamlit app for user-friendly comment analysis, leveraging FAISS for efficient text embedding and similarity search. Implemented advanced NLP techniques to enable real-time automated toxicity detection.

Llama, Streamlit, sentiment analysis, NLP

EduFlash
Generative AI

February 2025

Developed an AI-powered flashcard generator using Gemini API for intelligent content creation and FastAPI for a seamless frontend experience. The system transforms educational PDFs into interactive flashcards, enhancing student learning. With an intuitive interface and dynamic flashcard flipping, it makes studying more engaging and efficient. This solution ensures accurate content generation while maintaining a smooth user experience.

Generative AI, Fast API, Gemini API

Custom Pet Feeder
AIOT , SRM KTR

January 2024- May 2024

Developed an IoT-based automatic pet feeder with real-time monitoring and adaptive feeding, revolutionizing livestock management through precise data collection. Engineered the system using machine learning to analyze data and adjust feeding patterns, enhancing livestock health and sustainability. This efficient feeding solution promotes optimal pet nutrition and supports sustainable farming practices.

IOT, ESP32, Arduino IDE

AgriGuard
Machine Learning

January - March 2025

Developed an AI-powered plant disease prediction system using a pre-trained machine learning model for accurate disease identification. Leveraged image processing and deep learning to analyze leaf patterns and classify diseases efficiently. Provided an intuitive interface for users to upload images and receive precise disease predictions. This solution enhances crop health management, reducing losses and promoting sustainable farming.

Machine Learning, CNN algorithm, Sustainability

Skills

Development :

Machine Learning, Deep Learning, Generative AI, Large Language Models and IOT

Programming :

C , Python

Database :

PostgreSQL

Soft Skills

Communication Skills,Leadership ,Teamwork and Collaboration,Problem-Solving,Adaptability and Flexibility,Critical Thinking,Initiative and Proactiveness

Certifications

Machine Learning

November 2024

NPTEL

🔗 <https://www.imprzd.com/bi/NPTEL231350.html>

Machine Learning Foundations

February 2024

AWS Academy

🔗 https://www.credly.com/badges/f5d436be-bf93-47db-b7c6-70570714694e/public_url

Introduction to Industry 4.0 and Industrial Internet of Things

May 2024

NPTEL

🔗 <https://archive.nptel.ac.in/content/noc/NOC24/SEM1/Ecertificates/106/noc24-cs34/Course/NPTEL24CS34S65880049630545407.pdf>

Database Management

May 2024

NPTEL

🔗 <https://archive.nptel.ac.in/content/noc/NOC24/SEM1/Ecertificates/106/noc24-cs21/Course/NPTEL24CS21S65410039530097418.pdf>

Volunteering

TENDER CARE HOME (FOR SENIOR CITIZEN)

May 2024 - June 2024

Volunteer

Ambattur , Chennai

Volunteered at "Tender Care" for one month, assisting elderly individuals with meals, activities, and companionship. Gained valuable experience in elder care, emphasizing compassion, patience, and empathy. Provided support to seniors facing health and emotional challenges, enhancing their well-being. Learned about societal issues like isolation and lack of emotional support among the elderly. Actively engaged with residents and staff, understanding the complexities of elder care. Developed a deeper sense of social responsibility and the importance of community involvement.