



# Muthu Selvam V

Final-year AI Developer focused on cutting-edge AI solutions including LLM Agents, Retrieval-Augmented Generation (RAG), and Computer Vision. I build smart systems that think, adapt, and deliver results in domains like healthcare, finance, and automation.

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 [muthuselvam071](https://github.com/muthuselvam071)

## EDUCATION

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### Sethu Institute Of Techonology

BE.Computer Science and Engineering 2022 - 2026

### Wisdom Matric Higher Secondary School

HSC 2019 - 2020

SSLC 2021 - 2022

## SKILLS SUMMARY

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- **Languages:** Python (AI/ML, Generative AI, RAG), C, C++, Java
- **AI & ML Frameworks:** TensorFlow, Keras, Scikit-learn, OpenCV, NLTK, Hugging Face Transformers
- **Agentic & Generative AI:** LangChain, LangGraph, GPT-based Models, LLaMA, Stable Diffusion, RAG Systems
- **Tools:** Git, MySQL, SQLite, VS Code, Jupyter Notebook
- **Platforms:** Windows, Web, Arduino, Raspberry Pi
- **Soft Skills:** AI Product Development, Problem Solving, Leadership, Time Management, Research Thinking

## PROJECTS

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### 1. RAG\_Excel – AI Document & Data QA System

**Tech Stack:** Python, LangChain, OpenAI API, Streamlit

Developed a RAG-based tool to query Excel sheets and documents using LLMs for accurate data retrieval, summarization, and interactive Q&A.

### 2. CodingAgent – Autonomous AI Coding Assistant

**Tech Stack:** Python, LangChain, OpenAI API, Streamlit

Built an LLM-powered assistant using a multi-agent system to plan tasks, generate and debug code, and deliver results via a simple interface.

### 3.Multi-Agent AI Heart Disease Diagnosis & Monitoring Assistant

**Tech Stack:** LangChain, FAISS, FastAPI, Streamlit, Whisper, HuggingFace, scikit-learn

Developed a real-time AI assistant with multi-agent architecture for heart disease detection and monitoring. Supports voice interaction, analyzes patient data, predicts risk, and provides guideline-based insights for diagnosis and care.

### 4.Spam Mail Detection System

**Tech Stack:** scikit-learn, NLTK, Pandas, Flask, Streamlit

Developed an ML-based system to detect spam emails using NLP and classifiers like Naive Bayes and SVM. Deployed with Streamlit for real-time predictions.

## **EXPERIENCE**

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### **Web Development Intern - [link](#)**

Phoenix Softech, Madurai

June 2024 – July 2024

- Completed hands-on training in Web Development using PHP.
- Built and tested dynamic web pages with backend integration.
- Gained practical knowledge in server-side scripting and web application flow.

### **Artificial Intelligence Intern - [link](#)**

Novitech R&D Private Limited, Remote

Oct 2024 – Nov 2024

- Completed a one-month internship focused on Artificial Intelligence concepts and applications.
- Gained hands-on experience with AI techniques including supervised learning, data preprocessing, and model evaluation.
- Contributed to real-time AI problem-solving tasks under professional mentorship.

### **Machine Learning Intern - [link](#)**

Novitech R&D Private Limited, Remote

Nov 2024 – Dec 2024

- Completed a one-month internship in Machine Learning.
- Worked with ML algorithms such as linear regression, decision trees, and clustering methods.
- Implemented machine learning models on datasets using Python and libraries like scikit-learn and pandas.

## **Conferences & Presentations**

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### **Lexi Sense – AI-Powered Legal Assistant**

Presented at ICCCT 2025, Sri Vidya College of Engineering & Technology

Sponsored by Tamil Nadu State Council for Science & Technology | March 22, 2025

Explored Generative AI & LLMs for legal analysis and AI-driven legal support.

## **Certifications**

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- [AI Appreciate – Intel & CBSE](#) – Completed the "AI For All" program on ethical and responsible AI applications.
- [Programming in Java](#) , [Data Science Foundation](#) , [Artificial Intelligence Foundation](#) – Infosys Springboard: Gained proficiency in Java development, data-driven analysis, and foundational AI concepts.
- [Cloud Computing](#) , [Human-Computer Interaction](#) – NPTEL: Completed 12-week courses on cloud infrastructure, usability, and interaction design.
- [Learn How to Master AI Image Generation](#) – Scaler , [Scalable Auth with Node.js & JWT](#) – NoviTech , [Real-Time Color Detection](#) – NoviTech , [AI & ML Workshop](#) – VINSUP Academy (Skill India) , [Python Framework](#) – Sethu Institute of Technology : Gained hands-on experience in AI tools, backend authentication, computer vision, machine learning, and Python development.

## **VOLUNTEER EXPERIENCE**

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### **Organizer, College Hostel Day, Sethu Institute of Technology (October 2023)**

- Successfully coordinated the planning and execution of the college hostel day, managing logistics and organizing activities. Engaged students and faculty, fostering a sense of community and collaboration among hostel residents.