

# THIRUMALAI G

AI/ML Engineer

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## SUMMARY

AI/ML enthusiast with hands-on experience in building computer vision tools, language model applications, and agent-based systems. Proficient in Python, PyTorch, and LangChain. Passionate about solving real-world problems using artificial intelligence.

## EXPERIENCE

### Technical Intern – Vcodez

Chennai / Mar 2025 – Jun 2025

- Worked on 5+ AI/ML projects including LLM-based and vision-based tools.
- Collaborated with clients to resolve technical issues and optimize performance of deployed models.

## EDUCATION

### B.Tech ( Artificial Intelligence and Data Science ) - Muthayammal College of Engineering

Rasipuram / Aug 2021 – May 2025 (CGPA: 8.1 (Approx))

### HSC - New Power Matric Higher Secondary School

Sankarapuram / Aug 2020 – May 2021 (Percentage: 77.8%)

### SSLC - New Power Matric Higher Secondary School

Sankarapuram / Aug 2018 – May 2019 (Percentage: 72.2%)

## SKILLS

**Language** – Python (Advance), JavaScript (Basics)

**Tools & Frameworks** – PyTorch, Lang Chain, Lang Graph, ReactJS, Tailwind CSS, n8n, Comfy UI

**Domains** – Large Language Model (LLM), Vision Language Model (VLM), AI Agent

**Soft Skills** – Problem-Solver, Creative Thinking, Teamwork, Fast Learner

## PROJECTS

### End-End AI/ML Cloud Platform

Developed a complete cloud-based automation system for AI/ML workflows.

Includes data upload, preprocessing, automated model training, best-model selection, and visualization.

Integrated **RAG** (Retrieval-Augmented Generation) and **LLM** (Locally or API) for intelligent interaction and model chat.

### Sign Language Classification

Built a deep learning model using **GNN architecture** to identify sign language gestures (letters and words).

Trained on **10K+ dataset samples** to achieve high accuracy in real-time classification.

### YouTube Video AI Agent

Created an AI-driven content generation tool that automates **script writing**, **image prompt generation (Stable Diffusion)**, and **text-to-speech conversion**.

Automatically compiles outputs into a complete, ready-to-upload **YouTube video**.

## LANGUAGES

Tamil, English