

# Muthu Harish T

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## SKILLS

- **Languages:** Java, Python
- **Technologies:** REST APIs, RAG, LangChain, Machine Learning, Prompt Engineering, n8n, Git/GitHub, Postgres SQL, Computer Vision
- **Platforms:** Linux, Google Cloud, IBM Cloud
- **Soft Skills:** Communication, Leadership, Rapid Upskilling, Versatility

## AREAS OF INTEREST

- Project Management
- Machine Learning
- Operating Systems
- DBMS

## EXPERIENCE

**Stepping Edge Technologies - (Full-Stack AI & Software Engineering Intern)** *May 2026 – Present*

- Built a WhatsApp-based attendance system using n8n, JavaScript, and GPS geofencing for field employee verification.

**IBM SkillBuild – Edunet Foundation (Agentic AI Intern)** *Jul 2025 – Aug 2025*

- Developed an agentic AI system on IBM Cloud using Granite 8B to generate LaTeX TikZ diagrams from natural language prompts.

## PROJECTS

**DocuTalk – AI PDF Chatbot** *Python — LangChain — RAG — Ollama*

- Built a RAG-based chatbot enabling conversational querying across multiple PDF documents.
- Improved response relevance using semantic search, contextual retrieval, and local LLM inference with Ollama.

**Aadhaar Face Authentication** *FaceAPI — Computer Vision — Biometrics — Liveness Detection*

- Developed a biometric authentication pipeline for identity verification using facial recognition.
- Implemented face matching and liveness verification to reduce spoofing and unauthorized access attempts.

**Aegis – Parametric Wage Insurance System** *FastAPI — XGBoost — Machine Learning*

- Developed a FastAPI backend for an autonomous parametric insurance platform supporting gig workers.
- Integrated machine learning models to detect income-impact events and automate payout validation workflows.

## ACHIEVEMENTS & CERTIFICATES

- **Smart India Hackathon 2024** – Finalist
- **Ideathon 2025** – Winner
- **DocuTalk, Tech Expo (PSG ITech)** – Winner
- **Dynamic Hackathon 2025 by I4C** – Finalist
- **Industry–Academia Conclave 2025** – Winner
- **Oracle Certified AI Associate** – Participant

## LEADERSHIP

- **CSI Secretary** *Oct 2025 – Present*
- **Placement Representative** *Sep 2024 – Present*
- **NSS Volunteer** *Sep 2023 – Present*

## PATENT PUBLICATIONS

- **Self-Assisted Reading and Scribing System** – Published (Publication No: 15/2025)
- **Real-Time Emergency Alert and Location Geofencing** – Published (Publication No: 24/2025)

## EDUCATION

**PSG Institute of Technology, Coimbatore** *Aug 2023 – May 2027 (Expected)*  
B.Tech in Computer Science and Business Systems **CGPA: 8.22**  
**Kanchi Sri Sankara School, Tiruchendur** *Jun 2011 – Apr 2023*  
Higher Secondary Education **Percentage: 97.5%**