

MOWNISA V

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PROFESSIONAL SUMMARY

AI/ML Engineer with hands-on experience building Generative AI applications using LLMs, RAG pipelines, and multi-agent systems. Skilled in Python, FastAPI, LangChain, LangGraph, and Model Context Protocol (MCP) for developing scalable, production-style AI workflows with prompt engineering and human-in-the-loop (HITL) validation. Strong foundation in backend development and API integration, seeking to apply applied GenAI engineering skills in a fast-paced startup environment.

TECHNICAL SKILLS

- Generative AI / LLM: LLMs, RAG (Retrieval-Augmented Generation), Prompt Engineering, Multi-Agent Systems, Human-in-the-Loop (HITL) Validation
- Frameworks & Protocols: LangChain, LangGraph, Model Context Protocol (MCP), FastAPI
- Programming Languages: Python, Java
- Databases: PostgreSQL, MySQL
- Other: REST API Integration, Structured Outputs, Streaming Responses

EXPERIENCE

AI Platform Engineer – Trainee, Ava Software Private Limited Dec 2025 – Apr 2026
Chennai, India

- Developed Generative AI applications using LLMs, RAG pipelines, and multi-agent systems built with LangChain and LangGraph, contributing to 4+ production-style use cases
- Built stateful, multi-step AI workflows using MCP, integrating tools, prompts, resources, and guardrails, with HITL checkpoints for real-time data handling
- Improved application response quality through prompt engineering, structured outputs, response streaming, and HITL validation

Code Boffins Intern, Pinesphere Sep 2024 – Nov 2024
Coimbatore, India

- Developed responsive web interfaces using HTML, CSS, JavaScript, and React.js; built and deployed a Netflix-clone application with third-party REST API integration for frontend-backend data communication

PROJECTS

Multi-Agent Coding Assistant
LangGraph, MCP, Python, LLM Orchestration | [Live Demo](#) | [GitHub](#)

- Built a multi-agent AI system with 3 collaborating agent roles (generation, review, and research) for automated code generation using LangGraph, with structured feedback loops to iteratively refine output quality
- Engineered MCP-based tool integration and orchestration across the agent pipeline for real-time retrieval and context sharing between agents

AI-Powered Coffee Shop Chatbot
LangChain, FastAPI, HITL, Tool Integration | [Live Demo](#) | [GitHub](#)

- Developed a GenAI chatbot to automate customer query handling and order processing, reducing the need for manual order-taking
- Integrated human-in-the-loop (HITL) validation to catch and correct errors before order confirmation, combining automation with human oversight for reliable order accuracy
- Enabled real-time conversational operations through tool integration and structured output formatting for consistent, parseable responses

EDUCATION

Bachelor of Engineering (B.E.), Computer Science and Engineering Mar 2026
Dr. N.G.P. Institute of Technology, Coimbatore — CGPA: 8.68

HSC, Kongu Vellalar Matriculation Higher Secondary School, Coimbatore — 86.6% Jun 2022

CERTIFICATIONS

- Cloud Computing — NPTEL (Elite + Silver, 78%) | HTML & CSS — Great Learning