

ASHWIN KUMAR B

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PROFESSIONAL SUMMARY

Aspiring AI Engineer specializing in Generative AI, Agentic AI, and Large Language Model (LLM) application development, with hands-on experience building Retrieval-Augmented Generation (RAG) pipelines, multi-agent LangGraph workflows, and MCP-based automation using LangChain, LangGraph, and Ollama-hosted LLMs. Skilled in backend engineering with Python and FastAPI, including REST API design, OAuth 2.0 integration, and webhook-driven workflow automation. Experienced in validating AI system outputs for retrieval accuracy and hallucination, testing API integrations end-to-end, and debugging agentic workflows for production reliability across independent, remote, and collaborative team environments.

TECHNICAL SKILLS

Programming Languages: Python, SQL

Machine Learning: Supervised Learning, Unsupervised Learning, Model Evaluation, NumPy, Pandas, Data Annotation

Deep Learning: ANN, CNN, RNN

Backend & API's: FastAPI, Supabase (Backend/Webhooks)

Gen AI & LLMs: LangChain, LangGraph, CrewAI, LlamaIndex, Ollama, LLM APIs, RAG

Prompt Engineering: Few-shot Prompting, Zero-shot Prompting

Databases: MySQL, PostgreSQL, SQLite, Vector DB (ChromaDB)

PROFESSIONAL EXPERIENCE

Machine Learning Intern — Ether Infotech

Sep 2025 – Nov 2025 | Coimbatore

- Preprocessed and cleaned training datasets using Python, SQL, and Excel to support machine learning model development.
- Built and trained machine learning models for prediction and classification tasks.
- Engineered features and evaluated model performance to improve prediction accuracy.
- Visualized model outputs and insights using Power BI and Tableau to support data-driven interpretation.

PROJECTS

Zenith AI — Local RAG Chatbot

Dec 2025

Tech Stack: Python, FastAPI, LangChain, LangGraph, Mistral 7B (Ollama), ChromaDB

- Engineered a fully local, privacy-preserving RAG chatbot using FastAPI, LangGraph, ChromaDB, and Ollama-hosted Mistral LLM, enabling offline document Q&A across PDF, TXT, CSV, and DOCX formats.
- Architected a multi-node LangGraph workflow (sanitize → retrieve → generate → format) with bound math tools to improve context-aware response accuracy.
- Validated RAG pipeline outputs for retrieval accuracy and hallucination, and performed comprehensive API testing across all endpoints (/chat, /upload, /documents), including authentication flows and error handling.
- Optimized backend reliability through lazy import handling, rate limiting, and structured health-monitoring endpoints within the REST API.

Custom AI Agent Builder — No-Code Agentic Automation Platform

Jan 2026

Tech Stack: Python, Gradio, Ollama (Qwen3:4B), LangChain, ChromaDB, SQLite, Jinja2

- Built a Custom AI Agent Builder for non-technical users, powered by a Qwen3:4B LLM, a ChromaDB-backed RAG pipeline, and SQLite long-term memory, enabling context-aware workflow automation without coding expertise.
- Integrated Gmail and LinkedIn via OAuth 2.0, Instagram via a custom MCP server, and GitHub via Personal Access Token to enable autonomous multi-platform automation.
- Validated RAG pipeline retrieval accuracy and tested agent responses across edge cases to ensure consistent, hallucination-free outputs.
- Performed functional and API testing across all integrated platforms, verifying authentication flows, response formats, and error handling.

Capo Clicks Agentic Business Operations Suite

Feb 2026

Tech Stack: LangGraph, FastAPI, Supabase, Twilio, Resend, Render

- Designed and deployed a multi-agent business automation suite using LangGraph and FastAPI, orchestrating real-time order and payment workflows via Supabase webhooks.
- Built automated alerting pipelines using the Twilio WhatsApp API and Resend for order and payment notifications, reducing manual monitoring for a live e-commerce business.
- Deployed and maintained production infrastructure on Render, serving real customer order flow for an active business (Capo Clicks).
- Applied agentic AI architecture to solve an end-to-end business problem — automating the order lifecycle from webhook event to customer/admin notification.

EDUCATION

Sri Shakthi Institute of Engineering and Technology

Coimbatore, Tamil Nadu

B.Tech in Artificial Intelligence & Data Science | CGPA: 7.19 | Graduation: 2027

K.C.A.D MAT. Hr. Sec. School

Virudhunagar, Tamil Nadu

Higher Secondary Certificate (Bio-Maths) | 12th: 75.88% | 10th: 100% | 2023

CERTIFICATIONS

- Agentic AI Certified Foundations Associate — Oracle
- SQL (Advanced) — HackerRank
- Problem Solving (Basics) — HackerRank

Areas of Interest: AI Engineer • Generative AI • Machine Learning • Software Development Engineer (SDE)