

SANSKAR AGRAWAL

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Applied AI Engineer specializing in production agentic systems — hierarchical multi-agent architectures, LangGraph/LangChain orchestration, retrieval-augmented generation, and custom MCP servers. Built and shipped Hire a Human, a live multi-agent hiring platform that cut technical verification time from 15 minutes to under 1 minute. Focused on reliable, production-grade AI systems: backend engineering, system design, and measurable impact over research demos.

EXPERIENCE

Full Stack AI Engineer Intern — Maurice Engineering Works

Mar 2025 – Apr 2025

Indore, India

- Reduced a manufacturing client's accounting workload by 50 hours/week by building a Supabase-based financial tracker that automated end-to-end GST billing and expense workflows.
- Eliminated 25 hours/week of manual data entry at 95% accuracy by building an OCR pipeline (Python, FastAPI) processing 50 handwritten GST bills/day, auto-resolving bank names and addresses from IFSC codes directly into the client's Excel sheet.

Tech: Python, FastAPI, Supabase, OCR, React, TypeScript, REST APIs

Founding Engineer — Hire a Human (hire-a-human.app)

2026 – Present

Live production hiring platform

- Cut candidate technical-verification time from 15 minutes to under 1 minute by architecting a hierarchical multi-agent system (LangGraph + LangChain) that autonomously evaluates GitHub activity, LeetCode history, and resumes against a target job role via 2 custom MCP servers.
- Shipped a production voice agent supporting 11 languages at ~700ms time-to-first-audio by combining Silero VAD and BVC noise cancellation on LiveKit Cloud with Twilio telephony, deployed on Vercel.
- Validated product-market fit with 44 users (38 software engineers, 6 HR professionals), confirming the verified-skills approach solves a genuine pain point over resume/ATS keyword filtering.
- Built the recruiter-facing report generation pipeline and full-stack React frontend end-to-end; solo-owned architecture, backend, and deployment.

Tech: Python, LangChain, LangGraph, FastAPI, MCP, LiveKit, Twilio, React, Vercel

ADDITIONAL PROJECTS

D2C AI Employee — Independent Project

2026

- Built a guardrail-gated margin-leak detection system across Shopify, Razorpay, Shiprocket, and Meta Ads by letting merchants set their own breach thresholds (e.g., RTO rate above 20%), invoking the LLM only when a limit was actually crossed rather than on every check — cutting unnecessary inference cost.
- Delivered a merchant analytics chat layer answering questions like "why is my ROAS dropping" with 98% of responses traceable to a verifiable source row, by exposing 8 tools via FastMCP with citation arrays mapping every aggregated stat back to its origin.

Tech: Python, FastAPI, LangChain, FastMCP, SQL

Offline Medical RAG System — Independent Project

2026

- Built a fully offline RAG pipeline over 2,000+ pages of Harrison's Principles of Internal Medicine by embedding ~3,000 text chunks into ChromaDB with a local embedding model, keeping 100% of data on-device with citation-backed retrieval.
- Built 6 custom MCP servers for the pipeline, improving output reliability through iterative prompt refinement and LLM feedback loops.

Tech: Python, ChromaDB, LangChain

SKILLS

Agentic AI / LLM	LangChain, LangGraph, MCP / FastMCP, RAG, Vector Search (ChromaDB), Prompt Engineering, Tool/Function Calling, Voice AI (LiveKit, Twilio, STT/TTS)
Backend & Infra	Python, FastAPI, Flask, SQL, PostgreSQL, Supabase, Docker, AWS, Vercel, Git/GitHub
Frontend	React, JavaScript, TypeScript, REST APIs
Automation	n8n, Zapier, Make.com

EDUCATION & AWARDS

Acropolis Institute of Technology and Research — B.Tech | Indore, India | Aug 2023 – Jun 2027 | CGPA: 7.53

Certifications: AI Engineer (DataCamp, 2025) • Database Management Systems (NPTEL, 2025)

Awards: 1st Place — HackWave 2.0, UiPath Hackathon, AI for Impact, Innovate Expo, Web Design Competition, Tech-a-thon • Top 10/350+ teams — MUJHacks • Best Problem-Solving Approach — AI Manthan