

DEEPANSHU BHATORE

AI ENGINEER · AGENTIC AI · RAG · LLM SYSTEMS

Building Intelligent, Context-Aware AI Systems for Real-World Impact

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◆ PROFESSIONAL SUMMARY

AI Engineer and Full-Stack Developer with 3+ years of hands-on experience building, deploying, and iterating on AI-powered applications. Deep practical expertise in Agentic AI system design, Retrieval-Augmented Generation (RAG) pipelines, and Large Language Model (LLM) integration using Claude, OpenAI, and open-source models (Qwen, LLaMA). Proven ability to architect end-to-end AI workflows — from vector embeddings and knowledge retrieval to multi-agent orchestration and production deployment. Currently running a fully local AI stack (Ollama + Open WebUI + Continue.dev) on dedicated hardware, with active experience building agentic automation tools using n8n, LangChain-style pipelines, and custom API integrations. Passionate about applying AI to real-world EdTech, ERP, and enterprise productivity challenges.

◆ CORE AI & TECHNICAL COMPETENCIES

Agentic AI	Multi-agent system design, tool-calling agents, autonomous task orchestration, n8n agentic workflows, Continue.dev, Cursor AI (Composer)
RAG Systems	RAG pipeline design & implementation, vector embeddings, semantic search, document ingestion & chunking, retrieval optimization, knowledge base construction
LLMs	Claude (Anthropic API), OpenAI GPT-4/3.5, Qwen2.5-Coder (local), LLaMA 3, Ollama self-hosted models, prompt engineering, LLM chaining
AI Frameworks	Open WebUI, Ollama, LangChain concepts, n8n AI nodes, Cursor AI, Bolt, Windsurf, Grok
Full-Stack Dev	React.js, JavaScript (ES6+), PHP 8.x, Node.js, REST API design, JWT auth, Tailwind CSS, Java 8.x, & Node.js, Spring Boot.
Databases	MySQL 8.0 (optimized schemas), PostgreSQL (migration experience), SQLite, vector DB concepts (ChromaDB, pgvector)
Automation	n8n workflow automation, Zapier, Make (Integromat), webhook integrations, API orchestration
DevOps & Infra	Git/GitHub, CI/CD, PM2, Cloudflare Tunnel, Mac Mini M4 server management, Linux (CachyOS/Hyprrland), Docker (exposure)
Cloud & APIs	AWS (exposure), Azure (exposure), Cloudinary, SendGrid, Google APIs, Anthropic API, OpenAI API
AI Dev Tools	Cursor AI (daily use), Continue.dev (VS Code AI assistant), Open WebUI, Ollama model management

◆ PROFESSIONAL EXPERIENCE

Full-Stack Developer & AI Integration Lead · iSDAT – Indore, India

March 2024 – Present

Building production AI-assisted applications and agentic automation workflows for enterprise ERP operations.

- Architected and deployed iSDAT Manpower Tracking System — a complex multi-user ERP serving enterprise clients, processing \$500K+ annual payroll with real-time attendance tracking and payment automation (100+ concurrent users, 99.5% uptime).
- Agentic AI-Assisted Development:** Implemented AI-first development workflow (Agentic Coding):
- Used Cursor AI Composer as an autonomous coding agent for end-to-end feature development — generating 70%+ of the codebase including API design, DB schema, and business logic with human oversight and architectural control.
- Built and maintained a fully local AI stack on Mac Mini M4 server: Ollama for model hosting (Qwen2.5-Coder, LLaMA 3), Open WebUI for team-accessible LLM interface, and Continue.dev as an AI coding assistant — enabling private, offline AI capabilities for the team.

- ▶ Designed and actively migrating production database from SQLite to PostgreSQL using parallel environments with Drizzle ORM — demonstrating rigorous schema design, data integrity, and zero-downtime migration strategy across a 35+ table enterprise schema.
- ▶ Built n8n automation workflows for internal operations including WhatsApp notification pipelines (Evolution API), registration automation, attendance punch-in links, and data sync across Tailscale-connected infrastructure.
- ▶ Developed RESTful API layer (50+ endpoints) with JWT authentication, role-based access control, and third-party integrations (Cloudinary, SendGrid, PDF generation).
- ▶ Designed full-stack curriculum for iSDAT's Full-Stack Internship Bootcamp — including AI-assisted development methodology, teaching interns to work alongside LLMs effectively.

AI PROJECT — Local Agentic Coding Stack (Mac Mini M4)

Set up a production-grade local AI infrastructure: Ollama hosting Qwen2.5-Coder-32B and LLaMA 3.1 models, Open WebUI as team-accessible frontend, Continue.dev integrated into VS Code for AI pair-programming. Enables fully private, low-latency AI assistance for code generation, refactoring, debugging, and documentation — with zero data leaving the local network. Actively used daily for feature development on the MTS ERP system.

Software Consultant / Maximo Technical Consultant · BPD Zenith – Melbourne, Australia Feb 2023 – March 2024

Delivered AI-augmented technical consulting, full-stack development, and enterprise system integrations.

- ▶ Developed and deployed RESTful web services end-to-end for enterprise asset management clients — spanning analysis, design, implementation, QA, and maintenance, which directly parallels LLM API integration patterns.
- ▶ Built automation pipelines using Zapier and Make (Integromat) for lead capture, data processing, and marketing workflows — grounding in event-driven, agent-style automation design.
- ▶ Delivered 10+ client projects using no-code/low-code platforms (Framer, Webflow) combined with custom JavaScript — demonstrating ability to rapidly prototype AI-powered tools and demos.
- ▶ Converted Figma/Adobe XD designs into production UIs; optimized web performance achieving 90+ Lighthouse scores — relevant for building polished AI application frontends.
- ▶ Configured and maintained enterprise systems including Maximo EAM, achieving 30% reduction in system downtime through root cause analysis and performance tuning.

IT Support Consultant / Business Analyst · DataTent – Melbourne, Australia Feb 2021 – July 2022

- ▶ Led development of a data warehouse solution enabling real-time analytics and business intelligence — foundational for building RAG knowledge bases and enterprise data pipelines.
- ▶ Designed and optimized database schemas for scalability and performance, improving system reliability by 30% — directly applicable to vector DB and retrieval system design.
- ▶ Implemented CI/CD pipelines using GitHub Actions, reducing deployment times by 40% — establishing DevOps practices now applied to AI service deployments.
- ▶ Conducted comprehensive gap analysis across 15+ business processes and delivered data-driven optimization recommendations — the analytical foundation for AI solution scoping.

IT Support Consultant · Abhyudaya Multimedia – Indore, India May 2015 – Jan 2018

- ▶ Managed Apple/macOS and Windows Server environments; conducted user training and technology adoption programs — building the change management skills critical for AI feature rollouts.
- ▶ Achieved 40% improvement in data recovery and 25% productivity gain through process automation and structured knowledge transfer.

◆ AI & TECHNOLOGY PROJECTS

Agentic PDF Generation Tool — Browser-based bulk document generator using AI-assisted workflow

- ▶ Built a browser-based tool (jsPDF, PapaParse, JSZip) for bulk generation of official certificates with name-matched signature handling, visual verification grid, and ZIP download — a real-world document intelligence use case.
- ▶ Entire tool designed and iterated using Cursor AI agentic composer — demonstrating end-to-end agentic development from prompt to production.

n8n Agentic Automation Workflows — Self-hosted AI orchestration pipelines

- ▶ Designed and deployed multi-step n8n automation workflows integrating WhatsApp (Evolution API), email, and database triggers — implementing the event-driven, tool-calling architecture foundational to agentic AI systems.
- ▶ Explored n8n's AI Agent nodes for LLM-powered decision flows, connecting to local Ollama models for private, self-hosted AI automation.

iSDAT ERP System (AI-First Built) — React · PHP 8.x · MySQL · AI-Assisted Architecture

- Production-grade full-stack application architected using an AI-agent-in-the-loop development model. Complex multi-user ERP with role-based dashboards, payment automation, and real-time data processing — serving as a living proof-of-concept for AI-driven engineering.

Enterprise Support & Incident Management API — Java 21 · Spring Boot · PostgreSQL · AI-Assisted Architecture

- Hands-on project demonstrating backend engineering capability using the Java/Spring ecosystem rather than representing prior client employment. Designed a layered Spring Boot REST API using Controller → Service → Repository architecture with clear separation of concerns. Implemented Spring Security with JWT authentication and role-based authorization for client, support-agent and administrator workflows. Used Spring Data JPA with PostgreSQL for entity modelling, relationships, pagination, filtering, transactions and optimized queries.

◆ **EDUCATION**

Master of Business Information Systems (MBIS) 2018 – 2020

Monash University, Australia | Major: Data/Business Analytics, System Architecture, Software Development

Bachelor of Engineering – Electronics & Communication 2011 – 2015

RGTU, India | Programming, Data Structures, Algorithms, Digital Systems

◆ **AI FOCUS & PHILOSOPHY**

Agentic AI: Deep interest in designing agents that reason, plan, use tools, and act — moving beyond simple prompt-response to autonomous task completion pipelines.

RAG: Fascinated by grounded AI — systems that retrieve real knowledge before generating. Active experimentation with document ingestion, chunking strategies, and embedding-based retrieval for ERP context injection.

◆ **ADDITIONAL INFORMATION**

Location	Indore, Madhya Pradesh, India (Ready Relocate)
Availability	Immediate Full-time
Languages	English (Professional), Hindi (Native)
Self-Learning	Active practitioner: local LLM stacks, agentic workflows, open-source AI tooling, AI-first development methodologies

References available upon request.