

# HEMANT ACHARYA

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LinkedIn | GitHub | Bengaluru, India

## PROFESSIONAL SUMMARY

Experienced AI Engineer with a strong backend development foundation, specializing in building enterprise-grade, AI-driven platforms. Proficient in designing and deploying scalable solutions using Python (FastAPI), Java (Spring Boot), and Gen-AI frameworks like LangChain and LangGraph. Expertise in leveraging Vector Databases and ML models to create innovative applications focused on performance, scalability, and security.

## SKILLS AND EXPERTISE

- **AI & Machine Learning:** Embedding Models, RAG Pipelines, Reranking, Prompt Engineering, LLM Fine-tuning (LoRA, QLoRA, PEFT), Transformer Architecture, Applied ML with scikit-learn, PyTorch (model experimentation, evaluation, optimization)
- **Programming Languages:** Python, Java, JavaScript (React)
- **Frameworks & Libraries:** LangChain, LangGraph, LangSmith, Hugging Face Transformers, FastMCP, FastAPI, Spring Boot, Spring Security
- **Databases:** PostgreSQL, MySQL, MongoDB, Redis, Vector DBs (Pinecone, Qdrant, Chroma)
- **Database Architecture:** Schema Design, Query Optimization, Indexing, Stored Procedures, Triggers
- **Version Control:** Git, GitLab
- **Architecture:** Microservices, Event-Driven Systems, RESTful APIs
- **Cloud & MLOps:** AWS, Vercel, Docker, Kubernetes, CI/CD Pipelines

## PROJECTS

### AI-Powered Patient Lead Recovery Platform | LangGraph, Vapi AI | GitHub

- Developed an autonomous multi-agent platform that recovered up to **40% of lost patient leads** for dental clinics by automating re-engagement and appointment booking.
- Engineered intelligent agents using LangGraph and Pinecone (Vector DB) for advanced lead triage and semantic search, reducing manual follow-up by **90%**.
- Designed multi-channel nurture sequences (Email, SMS, AI Voice via Vapi.ai) for consistent lead follow-up.

### AI-Powered Technical Assessment Platform | WebRTC, RAG, Embeddings | GitHub

- Built a Technical assessment platform with **RAG-based plagiarism detection**, tool-calling for auto-question generation, and multi-prompt evaluation, reducing recruiter review time by **70%**.
- Integrated an AI analysis module for intelligent code quality feedback and automated candidate ranking.
- Engineered a live coding environment with an integrated code editor, real-time video, and screen sharing

## PROFESSIONAL EXPERIENCE

### Sr. Software Engineer | Quicktouch Technologies Ltd.

MAR 2023 - JUL 2025 | New Delhi, India

- **Quick Campus (EIMS - ERP Solution):** Developed and maintained a school ERP platform serving **3,500+** schools and **100,000+** users, focusing on batch data processing, Redis-based performance optimization, and secure payment gateway integration.
- **Quick HRMS (HRMS - ERP Solution):** Led end-to-end development of HRMS platform used by **300+ employees**, automating payroll and employee management. Designed optimized database schemas and integrated third-party APIs, improving system reliability and operational efficiency.
- **Vein India (Online Recruitment Portal):** Built the base architecture with a subscription model, implementing SSO across two platforms, enabling seamless logins and **reducing login drop-offs by 90%**. Integrated ELK stack for fast search across large datasets, enabling near-instantaneous job searches and improved user experience.

## EDUCATION

AI Engineering, MisogAI by Masai

Master of Computer Applications (MCA), Chandigarh University

Bachelor of Science (Maths), Aishwarya College of Education, Jodhpur

JUN 2025 - Present

JAN 2024 - DEC 2025

JUL 2018 - FEB 2022