

Shardul Kulkarni

Forward Deployed Engineer | Agentic AI / GenAI | Enterprise AI Delivery | Technical Consulting

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SUMMARY

AI engineer and delivery leader with 3+ years leading end-to-end GenAI and Agentic AI implementations for enterprise clients. Currently CTO at MAindTec GmbH, where I own the full delivery lifecycle: working directly with enterprise customers to understand business challenges, translating them into scalable AI solutions, implementing production-grade systems, and driving measurable outcomes. Delivered 3 complex AI transformation programmes across manufacturing and automotive. I bridge engineering teams, leadership stakeholders, and business users daily. Hands-on with LangGraph, Claude Code, FastAPI, and Azure.

SKILLS

GenAI / Agentic AI: LangGraph, LangChain, Claude Agents SDK, MCP Servers, Multi-Agent Orchestration, Tool Calling, RAG (hybrid search, reranking), Prompt Engineering, LLMs (OpenAI, Anthropic, HuggingFace)

AI / ML Engineering: LangSmith (evaluation, observability, tracing), PyTorch, Computer Vision (YOLO), Fine-tuning, Model Quality Metrics, Production Monitoring

Engineering / Backend: Python (5+ years), FastAPI, Pydantic, pytest, JavaScript, TypeScript, Node.js, Next.js 15, REST APIs, PostgreSQL, pgvector, Redis

Cloud / DevOps: Azure (Container Apps, OpenAI Service, Blob, Key Vault, Bicep IaC), Docker, CI/CD, Linux Server Administration

Consulting / Delivery: Enterprise Client Delivery, Stakeholder Management (C-level), Use Case Workshops, Technical Demos, Solution Architecture, AI Adoption Strategy, Industry Fair Presentations

EXPERIENCE

MAindTec GmbH (B2B AI SaaS Startup), Ingolstadt, Germany

Chief Technology Officer (CTO) · January 2026 - Present

- Led end-to-end delivery of complex GenAI and Agentic AI programmes for enterprise clients in manufacturing and automotive.
- Worked directly with customers to understand business challenges and translate them into scalable, production-grade AI solutions.
- Built production agentic AI systems with LangGraph: multi-agent orchestration, tool calling, and structured output validation.
- Architected hybrid RAG pipelines (pgvector, BM25 + dense + Cohere reranking) with LangSmith observability in production.
- Acted as bridge between engineering teams, C-level stakeholders, and business users across all client engagements.
- Owned technical delivery across multiple concurrent projects with high visibility and commercial impact.
- Guided clients on AI adoption, operationalisation, and integration into existing workflows and enterprise systems.
- Delivered 3 projects end-to-end from discovery through deployment. Led 9 engineers across all functions.

Lead Solution Engineer, AI and DevOps · June 2025 - December 2025

- Delivered end-to-end AI solutions for enterprise clients. Led technical demos, scoping sessions, and architecture decisions.
- Built agentic workflows with LangGraph. Deployed scalable services on Azure with CI/CD and production monitoring.

AI and Software Engineer · April 2025 - May 2025

- Built RAG-powered AI applications with LangChain and FastAPI. First production deployment on Azure with CI/CD.

Otto-von-Guericke University, Magdeburg, Germany

Research Assistant, Generative AI · December 2024 - March 2025

- Built RAG pipelines for medical workflows. Implemented LLM fine-tuning and agent-based retrieval systems.

mediMESH, Clinical Insights, Magdeburg, Germany

AI and Software Engineer (Working Student) · March 2023 - March 2025

- Built YOLO-based tracking in PyTorch for healthcare analytics. Optimized inference pipelines (99.84% faster).
- Managed Azure deployments, CI/CD pipelines, and Linux server infrastructure end-to-end.

PROJECTS

MAiQ — AI Engineering Platform — *Production B2B SaaS, Enterprise Clients*

- Enterprise AI platform: LangGraph agents, hybrid RAG, MCP servers, LangSmith observability. Multi-tenant, RBAC, SAML SSO. Next.js 15, FastAPI, pgvector. Serving manufacturing and automotive clients in production.

EDUCATION

M.Sc. Data and Knowledge Engineering · 2022 - 2024

Otto Von Guericke University · *GPA: 1.7*

B.E. Computer Engineering · 2017 - 2021

Savitribai Phule Pune University · *GPA: 1.4*

AWARDS

- Smart India Hackathon 2020, Top 5 Finalist (Government of India, 10,000+ teams)
- Smart Parkade and Smartzzy patents published (India)
- Microsoft Technical Associate, Python

LANGUAGES

English (C1) · German (A2, improving) · Hindi (Native) · Marathi (Native)