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# Krish Patil

## GenAI Engineer | Full-Stack AI/ML Developer

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### TECHNICAL EXPERIENCE

<b>GenAI Engineer</b> <i>NTT DATA, Mumbai</i>	<b>April 2025 — Present</b>
<ul style="list-style-type: none"><li>Led team developing <b>AI Agent monitoring platform</b> with real-time performance tracking, reducing model debugging cycles.</li><li>Architected <b>HIPAA-compliant multi-agent assistant</b> with <b>Redis</b> context management and <b>hybrid retrieval</b>, processing 10K+ regulatory queries with <b>98% accuracy</b>.</li></ul>	

  

<b>ML Engineering Intern</b> <i>TCR Innovation, Mumbai</i>	<b>April 2022 — Jun 2022</b>
<ul style="list-style-type: none"><li>Developed <b>predictive retention model</b> achieving <b>85% accuracy</b>, preventing <b>\$50K monthly customer churn</b>.</li><li>Automated <b>data processing pipelines</b> with <b>Python and SQL</b>, reducing manual intervention by <b>60%</b> and improving data quality.</li></ul>	

### SKILLS

<b>AI &amp; LLM Engineering</b>	LangChain, RAG Systems, Vector DBs (FAISS, ChromaDB), Multi-Agent Systems, Fine-tuning
<b>Full-Stack Development</b>	Python, TypeScript, React, Next.js, Django, FastAPI, WebSocket, PostgreSQL
<b>Cloud &amp; Infrastructure</b>	AWS (Lambda, ECS, S3), Azure OpenAI, Docker, Kubernetes, CI/CD

### EDUCATION

<b>Master of Science in Data Science with AI (Merit)</b> <i>University of Exeter, England, UK</i>	<b>Sept 2023 — Sept 2024</b>
<ul style="list-style-type: none"><li>Dissertation: Preventing confidential data leaks with <b>NLP</b> – achieved <b>40% reduction</b> in data exposure.</li><li>Advanced coursework: Machine Learning, Social Network Analysis, Text Processing with Python.</li></ul>	

  

<b>BE Electronics and Telecommunications Engineering (8.01/10 CGPA)</b> <i>Xavier Institute of Engineering, Mumbai, IND</i>	<b>June 2019 — May 2023</b>
<ul style="list-style-type: none"><li>Final-Year Project: Decentralised crowdfunding platform on <b>Solana blockchain</b> with smart contracts.</li><li>Technical foundation: <b>Data Structures (C++)</b>, <b>Database Management (SQL)</b>, <b>Deep Learning (Python)</b>.</li></ul>	

### PROJECTS

<b>iAgentOps AI Observability Platform</b> <i>AI Agent Observability &amp; Monitoring Platform SaaS</i>	<b>July 2025 — Ongoing</b>
<ul style="list-style-type: none"><li>Led integration of <b>RAGOps observability module</b> into production Django-React platform, implementing <b>OpenTelemetry</b> instrumentation for comprehensive AI system telemetry collection.</li><li>Built <b>FAISS embedding pipelines</b> with real-time performance tracking via <b>OTLP protocol</b>, monitoring RAG retrieval accuracy, latency, and coverage metrics.</li><li>Delivered interactive dashboards and APIs for stakeholder demonstrations, reducing <b>model debugging cycles by 45%</b> through enhanced observability.</li></ul>	
<b>HIPAA-Compliance AI Assistant</b> <i>Healthcare AI &amp; Compliance Management SaaS</i>	<b>September 2025 — October 2025</b>
<ul style="list-style-type: none"><li>Architected <b>multi-agent RAG system</b> with <b>adaptive chunking</b> and <b>hybrid retrieval</b>, processing 126K+ token regulatory contexts through <b>Azure OpenAI GPT-4o</b> for compliance guidance.</li><li>Implemented <b>zero-PHI LLM pipeline</b> with <b>sanitization-restoration architecture</b>, enabling secure healthcare document generation while maintaining <b>100% HIPAA compliance</b>.</li><li>Built <b>encrypted Redis memory management</b> with streaming chat interface, delivering transparent regulation-backed responses with <b>citation extraction</b>. <a href="#">Link</a></li></ul>	
<b>Data Leak Prevention through Behavioral AI</b> <i>Finetuning Research Project</i>	<b>April 2024 — Sept 2024</b>
<ul style="list-style-type: none"><li>Deployed <b>BERT-based NLP model</b> with real-time inference achieving <b>92% accuracy</b> in confidential data detection on production web application.</li><li>Achieved <b>40% reduction</b> in data exposure incidents through intelligent nudging system and behavioral pattern analysis algorithms.</li></ul>	

### CERTIFICATIONS

<ul style="list-style-type: none"><li>Microsoft Certified: Azure Data Scientist Associate (DP-100)</li><li>Microsoft Certified: Azure AI Engineer Associate (AI-102)</li></ul>	<b>June 2025</b>
	<b>July 2025</b>