

Ankit Tripathi - AI Engineer Resume

Hyderabad, India

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Career Summary

Innovative and technically skilled Test Manager with 12+ years of experience in software quality engineering, now pivoting into AI engineering. Hands-on experience with GenAI, Retrieval-Augmented Generation (RAG), LangChain, and cloud-native development. Successfully built and deployed AI/ML solutions such as predictive maintenance dashboards, NLP-based tweet analysis pipelines, and RAG-based chatbots. Strong foundational skills in Python, machine learning, cloud architecture (AWS), and scalable test automation. Eager to contribute AI-first thinking to real-world business challenges.

Core Competencies

- AI/ML: GenAI, LangChain, RAG, NLP, PyTorch
- Programming: Python, NLTK, Pandas, NumPy
- Cloud & DevOps: AWS, Docker, CI/CD, Cloud & On-prem Deployment
- Test Engineering: Test Automation, Jira Xray, Test Framework Architecture
- Leadership: Agile Mentorship, Cross-functional Collaboration, Quality Governance

Projects

LangChain RAG Chatbot:

Created a chatbot using LangChain and vector databases to process and query historical bug reports. The system suggests potential areas of application improvement.

IoT Predictive Maintenance Dashboard:

Full-stack application to collect, analyze, and visualize sensor data in real time for predictive maintenance.

Tweet Sentiment Analysis:

Built a sentiment classification pipeline using Python and NLTK. Improved accuracy by 20%.

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Professional Experience

Test Manager | Siemens PLM | Hyderabad, India | Mar 2018 - Present

- Designed and deployed Docker-based QA automation framework on isolated customer environments.
- Led transition from manual to automated testing for the Insights Hub IoT platform.
- Initiated production monitoring systems using log analysis and automation.
- Mentored QA engineers on DevOps, test architecture, and AI quality tools.
- Integrated Jira Xray with Agile workflows for effective test planning and tracking.

Certifications

- GenAI for Developers - Coursera, May 2024
- Fine-Tuning LLMs - Coursera Project Network, May 2024
- Generative AI for Everyone - DeepLearning.AI, May 2024
- LangChain: Chat with Your Data - DeepLearning.AI
- Certified IoT Expert - Global Tech Council, Dec 2024
- FinOps Certified Practitioner - Linux Foundation, Dec 2024
- AWS Solutions Architect - Associate (Expired Dec 2023)
- Intro to Deep Learning with PyTorch - DataCamp

Education

Bachelor of Engineering in Computer Science

RGPV, Jabalpur, M.P. | Graduated: July 2008