

DV

DHARMATEJA VALLURI

// QA ENGINEER — AI QUALITY & TEST
AUTOMATION

CONTACT

tel: +91 9666651521
mail: dharmateja2019@gmail.com
in: linkedin.com/in/dharma-teja-valluri
loc: Hyderabad, India

SKILLS

// Programming

Python · JavaScript · SQL

// Test Automation & QA Harnesses

Pytest · Playwright · Cypress · POM
Unit/Integration & E2E Testing
Quality Harness Design · STLC/SDLC

// AI/ML Quality Evaluation

Golden Dataset Frameworks
Precision/Recall Metrics
Relevance · Faithfulness · Completeness
Hallucination Detection · Guardrails

// AI / GenAI

LangChain · LangGraph · RAG · FAISS
· MCP

Prompt Engineering · OCI AI Agents
Oracle Select AI · OpenAI Agents SDK

// Delivery & Tools

Jenkins · Git · Docker · Kubernetes
Jira · Zephyr · FastAPI · Streamlit

CERTIFICATIONS

Oracle Cert. Foundations Assoc.

Agentic AI · 1Z0-1157-26
Aug 2026 · Score: 88%

Oracle Cert. Foundations Assoc.

OCI AI · 1Z0-1122-26
Aug 2026 · Score: 83%

</> PROFESSIONAL SUMMARY

AI QA Engineer with 4+ years designing quality assurance harnesses for multi-stage AI/ML pipelines. Strong hands-on Python/Pytest background in end-to-end test automation, Golden Dataset frameworks, and precision/recall & LLM quality evaluation (relevance, faithfulness, completeness, hallucination detection, safety guardrails). Experienced owning the full defect lifecycle — tracking, remediation coordination, and final acceptance sign-off — across microservices, RAG pipelines, and multi-agent orchestration systems built with LangChain, LangGraph, and MCP.

</> EXPERIENCE

Technical Support Engineer — AI/ML Training Nov 2025 – Present DeepTechCollab · Hyderabad | Informal / project-based engagement

- ▶ Built independent RAG pipelines, multi-agent systems, and an LLM evaluation framework applying relevance, faithfulness, completeness, and precision/recall-style metrics to validate AI output quality end-to-end.
- ▶ Configured and administered AI/ML and GenAI training lab infrastructure (RAID setup, OS installation, iLO management, static IP/network configuration), maintaining reliable environments across multiple concurrent training tracks.
- ▶ Delivered hands-on workshops on AI/ML, GenAI, and Agentic AI concepts for undergraduate and postgraduate students, translating applied QA and evaluation practices into teachable frameworks.

QA Engineer Apr 2021 – Aug 2025 Macrometa · Hyderabad

- ▶ Designed and maintained a comprehensive unit, integration, and end-to-end (E2E) test suite using Pytest and Playwright across functional, regression, and release testing for microservices architectures.
- ▶ Performed API-level functional and integration validation of microservices, strengthening system reliability and cross-service stability — establishing a repeatable quality harness pattern for multi-stage pipelines.
- ▶ Built and integrated automated test suites into Jenkins CI/CD pipelines, enabling continuous testing and fast feedback on every build.
- ▶ Owned the end-to-end defect lifecycle — triage, logging, tracking, remediation coordination, and resolution — using Jira and Zephyr, supporting final release acceptance sign-off.
- ▶ Collaborated with development and DevOps teams on test coverage, release readiness, and production stability across the SDLC.

</> PROJECTS

Multi-Agent Research Intelligence Platform [LangGraph · LangChain · FAISS] · Jan 2026

- ▶ Built a full-stack, supervisor-orchestrated multi-agent system coordinating 5 specialised agents (Research, Web, Tool, Safety, Evaluation) — validating a complex, multi-stage agentic loop end-to-end, from intake through delivery.
- ▶ Designed an LLM/agent evaluation framework using relevance, faithfulness, completeness, and precision/recall-style metrics, with safety guardrails for hallucination and harmful-output detection — functioning as a quality harness for the full pipeline.
- ▶ Implemented a hybrid RAG pipeline (FAISS vector search with real-time web-search fallback) to improve grounding and reduce unsupported responses.
- ▶ Integrated Model Context Protocol (MCP) for secure, standardised tool calling across agents; added observability and execution tracing for workflow monitoring and latency analysis, with a REST API backend in FastAPI and interactive Streamlit UI.

AI Test Case Generator [Phi-3 · LLaMA · Ollama · Streamlit] · Mar 2026

- ▶ Built an AI-powered test-case generation prototype using locally hosted Phi-3 and LLaMA models via Ollama, applying structured prompt-engineering to generate consistent, requirement-aligned test cases, with a modular Streamlit UI for dynamic, automation-ready test-scenario creation.

</> EDUCATION

M.S.I.T — Master of Science in IT JNTU, Hyderabad · CGPA: 7.95

2020

B.Tech — Computer Science KIET College · Percentage: 69.3%