TRAINER PROFILE

HARSH GUPTA

AI/ML ENGINEER | AGENTIC AI & LLM SPECIALIST

7+ Years of Training Experience | AI & Emerging Technologies

Claude Associate Foundation || Claude Architect Foundation || Claude Architect Professional

About the Trainer

Harsh Gupta is an AI/ML Engineer specializing in Generative AI, Large Language Models (LLMs), Agentic AI systems, Retrieval-Augmented Generation (RAG), AI application development and production-scale AI solutions. With hands-on experience in software engineering and building AI-powered applications, he brings a practical, implementation-oriented approach to AI learning.

His technical work spans LLM integration, prompt engineering, multi-agent orchestration, AI evaluation, vector databases, model fine-tuning and AI application deployment. He has contributed to solutions involving autonomous AI agents, AI governance, document intelligence, intelligent knowledge retrieval and enterprise workflow automation. His learning approach emphasizes applied concepts, hands-on exercises and the connection between AI architecture and real-world engineering.

Areas of Expertise

Claude & Generative AI	LLM integration, prompt engineering, AI workflows and application use cases
Agentic AI	Multi-agent systems, agent orchestration, autonomous workflows and tool calling
RAG & Knowledge Retrieval	Retrieval pipelines, embeddings, vector databases and grounding
AI Evaluation & Observability	RAGAS, LLM-as-a-Judge, LangSmith and trace analysis
AI Safety & Governance	Guardrails, AI governance, compliance auditing and risk-based testing
LLM Fine-Tuning	PEFT, LoRA and QLoRA
Application Engineering	Python, TypeScript, FastAPI, NestJS, REST APIs and microservices
Cloud & DevOps	GCP, Azure, Docker, Kubernetes and CI/CD

Key Achievements

- Developed an AI governance and compliance auditing platform using knowledge graph reasoning, policy-driven testing, LLM evaluation and trace analysis.
- Built a multi-agent tender evaluation pipeline supporting document review, evidence matching, scoring and retrieval evaluation.
- Created AI-powered learning workflows incorporating vector search, guardrails and measurable evaluation.
- Contributed to enterprise workflow automation using agentic AI, reducing workflow update time from days to minutes in a project context described in his resume.
- Worked on production FinTech infrastructure processing 3M+ transactions per month and distributed processing workflows.

Selected Industry Projects

Jupiter AI – Autonomous AI Governance Platform
An AI governance, security and compliance auditing platform incorporating governance-aware digital twins, risk-based test cases, knowledge graph reasoning, policy-driven testing, LLM-as-a-Judge evaluation and trace analysis. Technology stack: Google ADK, LangGraph, Neo4j, Arize Phoenix, FastAPI, Gemini and Python.

TenderLens AI – Agentic AI Tender Evaluation Platform
A multi-agent pipeline for tender document analysis with evidence matching, scoring and evaluation of retrieval grounding. Technology stack: LangGraph, FastAPI, Groq, OpenRouter, Celery, Redis, LangSmith, RAGAS and Azure AI Foundry.

IntelliGrad – Gamified AI Learning Platform
An AI learning platform using knowledge retrieval, vector databases, guardrails and evaluation workflows to support measurable scoring and response quality. Technology stack: LangChain, FastAPI, Vector DB, Guardrails, LangSmith and React.

Enterprise Knowledge AI Chatbot
Built a Retrieval-Augmented Generation-based chatbot using LangChain over large-scale institutional document corpora.

Claude Training Expertise

Training areas below represent suggested program coverage aligned to the trainer's technical background. Course content and certification terminology should be mapped to the applicable official certification syllabus.

Claude Associate Foundation
- Generative AI and Claude fundamentals
- Claude capabilities, use cases and limitations
- Prompting fundamentals and effective prompt patterns
- Context management and productivity workflows
- Responsible AI usage and practical exercises

Claude Architect Foundation
- LLM and Claude application architecture fundamentals
- Prompt design and optimization
- Claude API integration concepts
- AI workflows, tools and function-calling concepts
- RAG fundamentals and solution design
- Practical AI application development exercises

Claude Architect Professional
- Advanced AI application and enterprise architecture
- Agentic systems, orchestration and multi-agent workflows
- Tool integration and MCP concepts
- RAG architecture, optimization and evaluation
- Observability, guardrails and governance
- Scalable production AI design and case studies

Technical Stack

AI & LLM: Claude, LangChain, LangGraph, Google ADK, CrewAI, OpenAI API, Gemini, RAG, MCP
AI Evaluation: LangSmith, RAGAS, Arize Phoenix, Guardrails, LLM-as-a-Judge
Programming: Python, TypeScript
Backend: FastAPI, NestJS, REST APIs, Microservices
Databases: PostgreSQL, MongoDB, Redis, Neo4j, Vector Databases
Cloud & DevOps: GCP, Azure, Docker, Kubernetes, GitHub Actions, Jenkins, MLflow, DVC

Professional Experience

- **Forward Deployed Engineer**
  Agentic AI applications and enterprise workflow automation
- **Software Engineer**
  RAG-based chatbot and enterprise application engineering
- **Software Engineer**
  FinTech infrastructure, distributed systems, cloud and automation
- **Software Engineer**
  ERP modules, API development and database optimization

Education & Recognition

- PGD-AI/ML – IIT Gandhinagar
- B.Tech in Computer Science – AKTU
- National finalist – AI for Bharat, Pan IIT Hackathon
- Selected at Zomathon Hackathon by Zomato
- Fintech Essentials Program – GIFT City IFI Institute
- Solved 500+ LeetCode problems in DSA, algorithms and system design

Training Delivery & Learning Approach

The training programs are designed to combine conceptual understanding with practical implementation, real-world use cases, guided exercises and industry-oriented application development. The sessions focus on building learners' confidence in applying Claude and AI technologies to real-world professional scenarios.

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PLEASE FEEL FREE TO CONTACT US AND WE WOULD BE GLAD TO ASSIST IF YOU WILL HAVE ANY QUERIES.