TRAINER PROFILE

Bhavdipsinh Gohil

Generative AI | Agentic AI | Python | Backend Development

AI & Emerging Technologies Trainer

7+	Capgemini	Yellow.ai	Live Coding
Years of professional experience	Current: Backend Engineer, GenAI focus	Previous: Conversational AI & Backend	Project-based, hands-on delivery

About the Trainer

Bhavdipsinh Gohil is a Software Engineer with 7+ years of professional experience in Backend Development, Conversational AI and Generative AI. He specializes in AI applications, Large Language Model (LLM)-powered solutions, Retrieval-Augmented Generation (RAG) systems and multi-agent AI workflows.

He currently works as a Backend Engineer with a Generative AI focus at Capgemini India, building AI-powered applications with Python, FastAPI, LLM APIs and modern AI frameworks, including enterprise-oriented RAG chatbots and multi-agent workflows. Previously, at Yellow.ai, he worked on chatbot and voice bot development, NLP-based systems, automation workflows and end-to-end solution delivery.

Alongside his industry work, he has conducted internal training sessions, technical workshops and knowledge-sharing sessions on Generative AI, LLMs, chatbot development and AI system design. His approach emphasizes practical implementation, live coding, real-world scenarios and project-based learning.

Areas of Expertise

Python Programming Fundamentals, functions, data structures, OOP, exception handling, modules, packages, API integration	**Generative AI & LLMs** GenAI concepts, LLM architecture fundamentals, tokenization, embeddings, OpenAI / Claude / Gemini APIs
Prompt Engineering Prompt design principles, zero-shot & few-shot, role-based prompting, structured outputs, optimization	**Retrieval-Augmented Generation** RAG architecture, document-based AI apps, embeddings, semantic search, vector databases, knowledge chatbots
AI Agent Development Agent architecture, planning, reasoning, memory, tool usage, autonomous workflows, lifecycle management	**LangChain & LangGraph** Chains, tools, agents, workflow orchestration, memory management, graph-based agent workflows
Multi-Agent Systems Collaborative agents, task delegation, agent communication, workflows with CrewAI and AutoGen	**Model Context Protocol (MCP)** MCP fundamentals, architecture, servers, clients, tool integrations, agent connectivity
Backend Development & AI APIs Python backend, FastAPI, REST APIs, application integration, AI-powered backend services	**AI App Development & Deployment** Streamlit applications, AI application deployment, Docker fundamentals, deployment practices
AI Automation AI-powered workflow automation, web scraping, automation integration, intelligent workflows	**Data Processing & Analytics** NumPy, Pandas, data cleaning, data visualization, Matplotlib fundamentals
AI Monitoring & Evaluation Agent evaluation, performance metrics, LLM-based evaluation, observability, monitoring, AI safety fundamentals	

Tools & Technologies

Python FastAPI LangChain LangGraph CrewAI AutoGen OpenAI Claude Gemini MCP ChromaDB FAISS Pinecone Streamlit Docker Hugging Face Spaces LangSmith NumPy Pandas Matplotlib

Key Achievements

Professional Highlights

- **AI applications:** built with LLMs, Python and FastAPI.
- **RAG chatbots:** enterprise knowledge retrieval and information processing.
- **Multi-agent workflows:** designed with LangGraph, CrewAI and AutoGen for intelligent task orchestration.
- **Conversational AI:** chatbot and voice bot applications using NLP and automation workflows.
- **End-to-end delivery:** LLM integration, backend services, automation, technical discussions and client communication.
- **Training:** internal technical sessions and workshops on Generative AI, LLMs, chatbot development and AI system design.

Projects Built

- **AI Chatbot with RAG:** PDF-based knowledge retrieval and document interaction.
- **Multi-Agent AI System (CrewAI):** collaborative AI task execution.
- **Instagram AI Automation Agent:** automated workflow execution.
- **LangGraph SQL Agent:** intelligent data interaction and query-oriented workflows.

Course Delivered: Agentic AI with Python

A comprehensive, hands-on program covering Python programming, Generative AI, Large Language Models, Retrieval-Augmented Generation, AI agent development, multi-agent systems and AI application deployment.

Key Training Modules

01 Python Foundations

- Python Fundamentals, Programming Concepts & Environment Setup
- Control Flow, Loops, Data Structures & Functions
- Object-Oriented Programming, Exception Handling & File Handling
- Python Modules, Packages, API Integration & Data Processing
- Python for AI Engineering: NumPy, Pandas & Matplotlib

02 Generative AI & LLMs

- Introduction to Artificial Intelligence, Machine Learning & Generative AI
- LLMs, Transformer Fundamentals, Tokens & Embeddings
- OpenAI, Claude & Gemini Model Integration
- Prompt Engineering & Prompt Optimization Techniques

03 RAG & Vector Search

- Retrieval-Augmented Generation (RAG), Embeddings & Vector Databases
- ChromaDB, FAISS, Pinecone, Semantic Search & Hybrid Search

04 Agentic AI

- Agentic AI Fundamentals: Planning, Reasoning, Memory & Tool Usage
- Building AI Agents using LangChain & LangGraph
- Multi-Agent Systems using CrewAI & AutoGen
- Model Context Protocol (MCP), MCP Servers, Clients & Tool Integrations

05 **Build, Deploy & Evaluate**	• AI Application Development using FastAPI & Streamlit • AI Application Deployment, Docker Fundamentals & Hugging Face Spaces • AI Agent Evaluation, LLM-as-a-Judge, LangSmith, Observability & Guardrails

Hands-on Projects & Capstone Applications

▪ **AI Research Assistant**	▪ **Resume Analyzer Agent**
▪ **AI Customer Support Agent**	▪ **Multi-Agent Travel Planner**
▪ **AI Financial Advisor Prototype**	▪ **Enterprise Knowledge Assistant**
▪ **RAG-Based PDF Knowledge Chatbot**	▪ **Multi-Agent AI Workflow Automation**

Training Delivery & Learning Approach

The program combines theory with hands-on coding, practical exercises, real-world case studies and industry-oriented AI application development. It builds a strong foundation in Python, Generative AI, LLMs and Agentic AI, then moves to guided implementation of AI agents, RAG applications and multi-agent workflows, so participants can design, build and deploy intelligent AI applications in real professional scenarios.

Live Coding	Project-Based	Real-World Cases	Instructor-Led
Concepts built step by step on screen	Guided implementation of real applications	Industry-oriented scenarios and use cases	Interactive, practical sessions

GET IN TOUCH

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Please feel free to contact us. We would be glad to assist with any queries.