Artiq Insights

Learn to use AI Agents and simplify work

Professional Certificate in Agentic AI (PCAgAI)

LEARN

INNOVATE

LEAD

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DESIGN BUILD & DEPLOY AI AGENTS

Program Duration

4 Months

Program Format

Blended / Live online

Focus

- LLM Foundations
- Embeddings, Semantic Search and RAG
- Reasoning, Planning and Action
- Fine-tuning and Customization
- Deployment, Observability and Governance

Unique Edge

Go beyond individual models or tools and learn to architect, govern, and operationalize Agentic AI systems

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Program Outcome

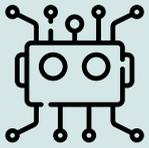You will graduate capable of deploying a governed, multi-tool AI Agent to the Cloud.

Why Agentic AI?

The future of automation is autonomous. This intensive 4-month program will take you beyond basic Prompt Engineering and RAG systems into the world of Agentic AI. You will gain the critical, hands-on skills required to design, orchestrate, deploy, and monitor intelligent AI agents that can plan, reason, and act independently in a production environment.

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KEY CONCEPTS AND SKILLS

In this highly practical hands-on program, you will develop the following key skills and competencies with a significant time dedicated to the production life-cycle of an AI Agent.

Agentic Core & RAG Engineering

Advanced Prompting (Chain-of-Thought, ReAct), Orchestration Frameworks (LangChain/LangGraph), Vector Databases (RAG), LLM Fine-Tuning

Deployment & Containerization

Building high-performance model APIs with FastAPI, Containerizing entire Agent system using Docker for reproducibility

Cloud Deployment Strategy

Deploying containerized agents across major platforms, such as AWS, Azure, or HuggingFace Spaces.

Production Monitoring & Observability

Tracing multi-step agent workflows, implementing crucial cost controls via token-level monitoring, and cost analytics.

Governance & Safety

Implementing guardrails and cloud-native guardrails, establishing best practices for privacy, compliance, audit trails, and model cards.

* For the full list of topics covered and skills developed, please visit www.artiqinsights.com/PCAgAI.

TARGET AUDIENCE

- Working Professionals in any Industry
- ML/AI Developers and Data Scientists
- MLOps Engineers
- Product Managers and Tech Leads
- Researchers and college faculty

PREREQUISITE

- Intermediate Python programming skills (functions, classes, virtual environments)
- Ability to call API endpoints and work with JSON objects
- Familiarity with the command line and Git for version control.
- Familiarity with model training/testing concepts (train/test split, evaluation metrics)

Take the Next Step

The industry needs engineers who can not only build models but also manage their autonomy and ensure their safety. Enroll in the PCAgAI program and become the expert who brings autonomous AI agents to life in your organization.

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CONTACT US

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