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# LEADING ENTERPRISE AGENTIC AI DEVELOPMENT CERTIFICATE PROGRAM

***Build, govern, and scale agentic AI systems that drive enterprise value.***

The next phase of **artificial intelligence is already reshaping how organizations operate**. Agentic AI — systems that can reason, act autonomously, and collaborate with humans — are moving from experimentation to enterprise deployment. As a senior leader, success depends on your ability to lead that adoption responsibly and at scale.

In the Leading Enterprise Agentic AI Development (LEAAID) Certificate Program, you'll **develop the capabilities to design, deploy, and govern AI-driven systems** that deliver measurable business value. Developed in conjunction with Carnegie Mellon University's renowned Chief Data and AI Officer (CDAIO) Program, this experience equips you with the strategic, technical, and operational fluency needed to lead in an emerging AI landscape.

You'll gain a practical understanding of agent-based systems, multi-agent architectures, AI governance, and enterprise AI strategy — along with the frameworks required to align innovation with accountability, security, and risk management.

This five-module, fully virtual program is designed for senior leaders ready to move from understanding agentic AI to leading it. Participants leave with both strategic clarity and practical tools to drive enterprise AI adoption at scale.



## WHY LEAAID?

- **Five modules, fully virtual**
- **Condensed format — complete the program in under two months**
- **Hands-on Agentic AI Lab capstone experience**

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## PROGRAM MODULES

**Agentic AI Foundations and Enterprise Use Cases** Establishes a clear understanding of agentic AI and its role in enterprise transformation. Participants explore agent architectures, multi-agent systems, planning and orchestration, tool use, and human-in-the-loop interaction models — with a focus on identifying where agent-based approaches create differentiated value relative to traditional automation.

**Data Foundations and Architecture for Agentic AI** Examines the data ecosystems, governance frameworks, interoperability standards, and architectural patterns required to support intelligent agents at scale. Participants develop the ability to assess and strengthen the data infrastructure their organizations need to deploy agentic systems reliably.

**Agentic AI Assurance (Risk, Security, and Trust)** Introduces a comprehensive assurance framework covering model validation, system testing, red teaming, continuous monitoring, and secure deployment. Participants examine key risk domains — including model drift, hallucinations, adversarial threats, bias, and unintended agent behaviors — and learn to implement practical governance controls that enable innovation while maintaining enterprise-grade compliance.

**Agentic AI Strategy, Design, and Governance** Focuses on translating agentic AI capabilities into sustained business value through effective strategy, design, and governance. Topics include aligning AI initiatives with enterprise priorities, defining operating models, establishing accountability, sequencing use cases, and designing agent-enabled workflows — with an emphasis on balancing innovation with risk.

**Agentic AI Lab (Applied Build Experience)** A hands-on, guided experience where participants design and prototype an agent-based solution aligned to a real or representative enterprise use case. The lab walks through problem framing, agent design, tool and data integration, workflow orchestration, and evaluation of outputs — bridging the gap between strategy and execution.

## FACULTY PERSPECTIVE



"The shift to agentic AI is fundamentally changing how enterprises operate. Governing and scaling these systems so they can be trusted, controlled, and aligned with organizational objectives is where the real leadership work begins."

*- Anand Rao*
*Distinguished Service Professor of Applied Data Science and AI, CMU's Heinz College*

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## AGENTIC AI LAB

The Agentic AI Lab is the program's applied capstone experience. Rather than a traditional team practicum, the Lab places each participant in a structured build environment where concepts become practice.

- Participants design and prototype an agent-based solution tied to a real or representative enterprise use case.
- The Lab walks through key steps: problem framing, agent design, tool and data integration, workflow orchestration, and output evaluation.
- Participants are introduced to practical development patterns and lightweight frameworks that enable rapid prototyping.
- The experience reinforces learning across all four preceding modules, equipping participants to more effectively lead and oversee implementation efforts within their own organizations.

## WHO IS THIS PROGRAM FOR?

The LEAAID Certificate Program is designed for senior leaders responsible for driving AI strategy and digital transformation, including:

- Chief Data and AI Officers
- Chief Information and Digital Officers
- Technology and innovation executives
- Senior leaders in operations, strategy, and product
- Public sector and nonprofit leaders advancing AI adoption

## PROGRAM REQUIREMENTS

**What are the steps to earning the LEAAID Program Certificate?**

1. **Candidate Acceptance:** Applicants should be senior leaders with meaningful experience driving technology strategy, AI adoption, or digital transformation within their organizations.
2. **Participation:** Students are required to attend all virtual sessions to complete the program. All sessions are delivered via Zoom.
3. **Agentic AI Lab:** Participants complete a hands-on build experience, designing and prototyping an agent-based solution that demonstrates practical command of the frameworks and concepts taught throughout the program.

**The LEAAID Program Certificate includes the following benefits:**

- Official LEAAID Program logo for display
- Immediate entry into the Executive Advantage Program

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## PROGRAM LOGISTICS

**Program Dates:** Delivery begins January 26, 2027.

Virtual Modules: 1 – 5 p.m. ET January 26, 28 | February 9, 18 | March 2
All sessions delivered via Zoom.

**Program Fees:** Full Rate: $4,250 | Discounted Rate: $3,750

*Applies to CMU alumni — including graduates of the CIO, CISO, CRO, CDAIO, CIDO, and CDigitalO programs — U.S. government employees, U.S. veterans and employees of nonprofit organizations.*

Program cost is a flat rate with no additional fees.

*Please note: Due to the noncredit nature of this program, students are unable to apply for tuition assistance or scholarships. Program costs cannot be itemized.*

**Application Deadline:** Please submit your application as soon as possible for consideration. If space remains after the deadline, applications will be accepted on a first-come, first-served basis.

**Cancellation/Refund Policy:** The total program cost is required to reserve a seat. Students who withdraw more than three days prior to the program start date may receive a 50% refund. No refunds will be issued after the program start date.

**To Apply:** heinz.cmu.edu/leaaid


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## ABOUT HEINZ COLLEGE

The Heinz College of Information Systems and Public Policy is home to two internationally recognized schools: the School of Information Systems and Management and the School of Public Policy and Management. Heinz College leads at the intersection of people, policy, and technology, with expertise in analytics, artificial intelligence, arts & entertainment, cybersecurity, health care, and public policy. The college offers top-ranked undergraduate, graduate, and executive education certificates in these areas.

Our programs are ranked #1 in Information Systems, #1 in Information and Technology Management, #7 in Public Policy Analysis, and #1 in Cybersecurity by U.S. News & World Report. For more information, visit heinz.cmu.edu.

