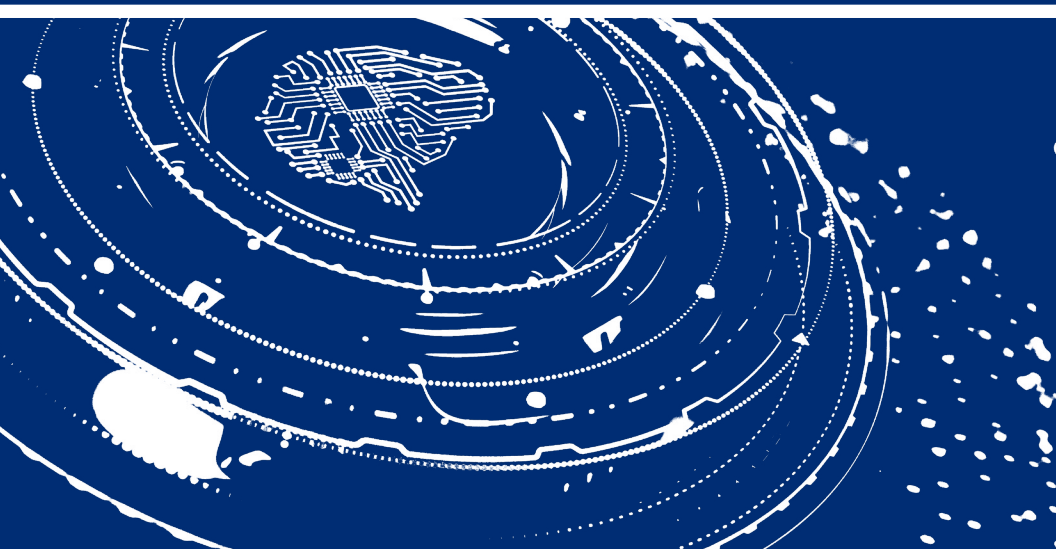JOHNS HOPKINS
WHITING SCHOOL
of ENGINEERING

Lifelong Learning

AI: WHAT SENIOR LEADERS NEED TO KNOW (US GOVERNMENT)

PROGRAM INFORMATION

COURSE DESCRIPTION

As AI permeates every aspect of society, leaders are faced with the question of how to harness the potential value of AI technology effectively. "AI: What Senior Leaders Need to Know?" unpacks this question and provides a comprehensive approach to adopting AI technology and minimizing the risk of experiencing the technological valley of death. In this program, senior leaders will be introduced to the 6-D Framework used by the Department of Defense on AI technology design and deployment projects. They will engage with a comprehensive technology roadmap to gauge the maturity of various AI technology offerings and participate in interactive exercises to create concrete action plans for AI adoption in their respective organizations.

DELIVERY COMPONENTS

Dates and Times: Nov. 6 to 7, 2024, 09:00 to 16:30
Modality: In person
Course Price: $3,700
Location: Johns Hopkins Bloomberg Center
Meals: Breakfast and lunch will be provided during the course.
JHU Day-of-Contact: Kandice Garner, kandice@jhu.edu

WHO SHOULD TAKE THIS COURSE?

Senior US government leaders (GS 14-15, Military 05-06) who are tasked with the integration of AI in their organization.

KEVIN LIGOZIO (COURSE DIRECTOR)

Kevin Ligozio is the Chief AI Architect of the Asymmetric Operations Sector (AOS) of the Johns Hopkins University Applied Physics Laboratory (APL). AOS comprises approximately 1600 staff across three mission areas focused on advancing the nation's ability to defeat the asymmetric threat, whether human-made or naturally occurring. Areas of focus include countering weapons of mass destruction, mission autonomy, cyber operations, biological threats, and terrorism. Mr. Ligozio oversees efforts to achieve these goals through the advancement and utilization of data science and artificial intelligence. Previously, Mr. Ligozio served as the Technical Director and Assistant Group Supervisor of the Tactical Intelligence Systems Group within the AOS, conducting technical research, providing technical oversight and technical staff management for multiple AI programs focused on researching, developing, and integrating AI technologies into DoD tactical-edge platforms.

Mr. Ligozio is also an adjunct professor in The Johns Hopkins University Whiting School of Engineering's Computer Science Master's Program. He received a B.A. in Mathematics and Computer Science from the State University of New York at Geneseo and an M.S. in Computer Science from the Rochester Institute of Technology.

JANE PINELIS, PH.D.

Dr. Jane Pinelis currently serves as the Chief AI Engineer of the Applied Information Sciences Branch at Johns Hopkins University's Applied Physics Laboratory (JHU/APL). With a background in defense and national security spanning over 15 years, Dr. Pinelis has held various critical positions of responsibility. Before her current role, she served as the inaugural Chief of AI Assurance at the Chief, Digital and AI Office (CDAO) and the Joint

Artificial Intelligence Center (JAIC) at the Department of Defense, where she oversaw the Test and Evaluation, as well as Responsible AI directorates. Dr. Pinelis holds a BS in statistics, economics, and mathematics, an M.A. in statistics, and a Ph.D. in statistics, all from the University of Michigan, Ann Arbor.

CHRISTOPHER RATTO, PH.D

Dr. Christopher Ratto is the supervisor of the Artificial Intelligence group in APL's Research and Exploratory Development Department and has over 15 years of experience applying AI/ML to problems in national security and defense. The AI Group is comprised of over 40 scientists and engineers conducting foundational research in AI with potential for cross-mission impact, by working in performer and Government-team roles on 6.1-6.2 research programs and "inventing the future" for APL by experimenting emerging AI technologies and sharing lessons learned throughout the Lab. Prior to his current role, Dr. Ratto was a Program Manager in APL's Sea Control Mission Area for Maritime Remote Sensing. His personal research interests include adversarial machine learning, generative AI, and remote sensing applications of interest to the intelligence community. Dr. Ratto holds a B.E.E. from The Catholic University of America, and an M.S. and Ph.D. in Electrical and Computer Engineering from Duke University.

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KEY TAKEAWAYS

- Equip senior leaders with a comprehensive approach to adopting AI technology to unpack the question, "How do we turn our organization's AI strategy into action?"

- Understand the AI state-of-the-art and recognize opportunities and pitfalls
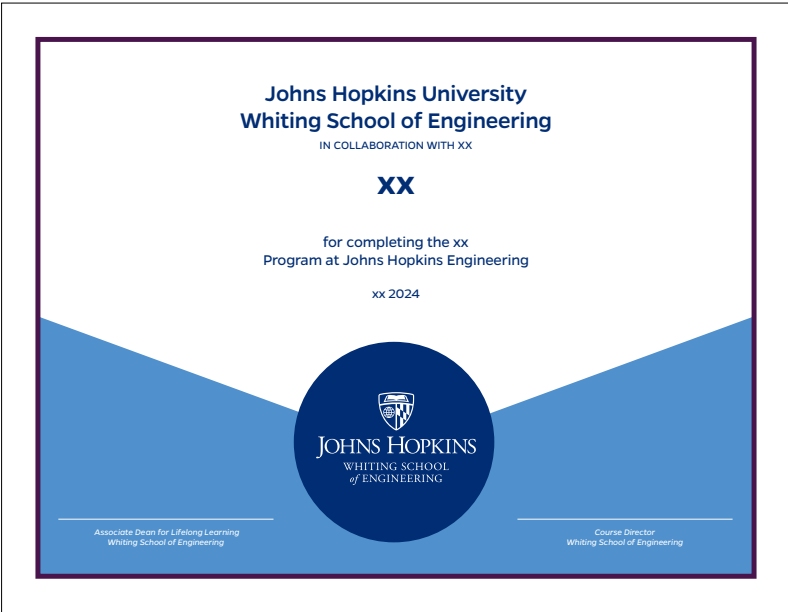
- Understand the critical components for building AI-enabled systems
- Assess and steer the role of AI research on achieving an organization's mission
- Develop an action plan for implementing AI in an organization

LIST OF TOPICS

- Holistic AI: Effectively Leading AI Implementation using the 6D Framework (Decomposition, Domain Expertise, Data, Design, Diagnose, and Deployment)
- Ethics in AI
- Pioneering Research with Mission Intent
- Responsible AI
- AI Test & Evaluation
- Generative AI
- DoD Projects & Case Studies
- Human Systems Integration

CERTIFICATE OF COMPLETION

All participants that successfully complete the course will receive a Digital Certificate of completion from Johns Hopkins Engineering Lifelong Learning.

Johns Hopkins University
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for completing the xx
Program at Johns Hopkins Engineering

xx 2024

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Associate Dean for Lifelong Learning
Whiting School of Engineering

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Course Director
Whiting School of Engineering

ACCESSIBILITY AND DISABILITY ACCOMMODATIONS

As Johns Hopkins University works to foster diversity and build a campus culture of inclusion, it is committed to ensuring people with disabilities enjoy full participation in the university's programs, services, and benefits. Johns Hopkins seeks the continuous improvement of accessibility on its campuses and in its activities and prohibits unlawful discrimination on the basis of disability.

NEW STUDENTS/LEARNERS

To establish eligibility for disability-related accommodations and services:

1. Complete the SDS online application through our university-wide database, Accommodation Information Manager (AIM).

2. Submit documentation using the link received after you submit the application.

3. Schedule a meeting with Dayna Geary, SDS Coordinator for Lifelong Learning, to discuss your needs as well as potential accommodations and services.

Please review the Documentation Guidelines for Individuals with Disabilities for more information on supporting documentation.

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