

AI Standards: Roadmap for Ethical and Responsible Digital Environments

An IEEE eLearning Library Course Program

As artificial intelligence (AI) continues to spread across various industries—including healthcare, manufacturing, transportation, and finance among others—rigorous best practices focusing on equality, security, and privacy are vital to keep in mind when implementing ethically-aligned digital ecosystems.

This five-course program will help your organization responsibly integrate AI within your products and operations. Topics covered include organizational transparency, best practices for securing ethical systems, data privacy, software engineering requirements for privacy controls, and more.

Ideal for staff and educators preparing to leverage AI capabilities, these courses are designed to provide instructions for implementing a comprehensive approach to creating ethical digital ecosystems.

Roles that will benefit from this training include:

- Senior leadership
- Engineers, software developers, and other technical professionals
- Designers, suppliers, and marketers involved in product design and services that house or touch personal data

Course Instructors

Eleanor 'Nell' Watson, founder of QuantaCorp and faculty at Singularity University, is a world-renowned-futurist thinker known for bridging the world of technology and humanity. She is an IEEE Senior Member, and she serves as a Senior Scientific Advisor to the Future Society at Harvard.

Marsali Hancock, CEO and president of EP3, is a pioneer in youth protection in cyberspace as well as in shaping and distributing countermeasures for online safety. A visiting scholar at Stanford University, Media X, she has sat on nearly 100 advisory boards including Google, AT&T, Comcast, Microsoft, Facebook, Yahoo, and Verizon.

Matthew Silveria, president of Objective Business Solutions, specializes in information security and privacy by design emphasizing healthcare, first responder communication systems and voting systems. He currently serves as the chair of the IEEE P7002 workgroup.

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Quick Facts

Develop the skills and knowledge needed to succeed:

Five-course program designed help organizations form a comprehensive approach to creating ethical digital ecosystems

Courses developed and peer reviewed by experts in their fields, a process that guarantees the quality of the technical content

Printable IEEE CEU or PDH certificates awarded upon successful completion of the program through the IEEE Learning Network

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Courses Included in the AI Standards Program:

AI Standards: Organizational Transparency

Identify various factors that relate to organizational transparency, minor differences that may lead to major differences in outcomes, and practical steps towards implementing more consistent and rigorous ethical organizational standards.

AI Standards: Best Practices for Ethical Systems

Learn about factors that drive or inhibit the quality of transparency in systems, seemingly minor differences that may lead to major differences in outcomes over time, and practical steps towards implementing more consistent and rigorous ethical organizational standards—such as internal audits, federated and peer systems, smart contracts, and more.

AI Standards: A Comprehensive Approach to Digital Ecosystems

Explore how the responsible use of technology can foster learning and wellness outcomes when the technology is developed under a comprehensive and holistic approach. Topics include the importance of child and student data security, how Internet-enabled devices gather personal information, and how to better prepare for creating and implementing future technologies.

AI Standards: System Design Considerations for Data Privacy

Gain practical data lifecycle tips as an engineer or developer during this review of fundamental data and design considerations for software engineering as it relates to privacy requirements for end-user and third-party application use. Learn to evaluate and map requirements to privacy controls based on discussed use cases.

AI Standards: Configuring Systems for Privacy

Become familiar with key elements and concepts that can enhance privacy capabilities and safeguards in the software engineering and development process. Topics covered how a privacy assessment relates to software requirements development, understanding the role of organizational stakeholders during the execution, and relevant IEEE and third-party standards.

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