

# AI Ethics & Law: Governing AI Innovations

**Duration:** 02 days (16 hours)

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## Course Outcomes:

- Understand the foundational concepts of AI, its types, and applications in society.
  - Analyze the ethical principles that guide the development and deployment of AI systems.
  - Evaluate national and global regulatory frameworks for governing AI technologies.
  - Assess the impact of AI on privacy, civil liberties, and human rights.
  - Identify strategies to mitigate bias and promote fairness, accountability, and transparency in AI.
  - Explore the role of AI in promoting global sustainability and addressing environmental and social challenges.
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## Course Modules:

### Module 1: Introduction to AI and Its Applications

- **Overview of Artificial Intelligence:** Defining AI, its capabilities, and limits
- **Narrow AI vs. General AI:** Exploring the distinction and current state of AI development
- **Machine Learning and Neural Networks:** Core technologies powering AI systems
- **AI Applications:** Chatbots, language translation, medical imaging, self-driving cars, etc.

### Module 2: Ethical Foundations in AI

- **Ethics of Human Dignity:** Balancing human rights and AI development
- **Nonmaleficence and Beneficence:** Ensuring AI prevents harm and promotes good
- **Fairness, Justice, and Equity:** Developing AI systems that are inclusive and just
- **AI and Human Rights:** Protecting privacy, autonomy, and civil liberties in the AI era

### Module 3: Legal Frameworks and AI Regulation

- **Defining "Artificial Intelligence" in Legal Terms:** How laws define and regulate AI
- **National and International Regulatory Frameworks:** Comparing AI governance across countries

- **Corporate AI Governance:** How businesses are creating internal AI policies
- **Privacy and Civil Liberties:** Laws governing the use of AI in surveillance and data privacy

#### **Module 4: AI Transparency: Explainability and Interpretability**

- **The Challenge of Explainability in AI:** Why some AI models are difficult to explain
- **Public Trust in AI Technologies:** How transparency impacts trust in AI systems
- **Balancing Transparency and Complexity:** Addressing the trade-offs in AI development
- **Interpretability in High-Stakes Environments:** Ensuring AI decisions are understandable in critical areas like healthcare and law

#### **Module 5: AI and Civil Liberties**

- **AI and Free Speech:** Combatting misinformation and defending against propaganda
- **Government Surveillance:** Balancing security and privacy in the AI era
- **Civil Liberties and AI Regulation:** Protecting free speech, privacy, and autonomy through law
- **AI in Democracy:** AI's role in influencing elections, public opinion, and governance

#### **Module 6: AI Accountability and Governance**

- **Accountability Mechanisms in AI:** Ensuring AI developers and systems are held responsible
- **Ethical AI Governance:** Best practices for creating ethical AI policies
- **Monitoring AI Systems:** Tools and methods for tracking and auditing AI performance
- **Global Approaches to AI Governance:** How different nations address AI accountability

#### **Module 7: AI, Bias, and Discrimination**

- **Addressing Bias in AI Systems:** Understanding how bias is introduced and how to mitigate it
- **Invidious Discrimination in AI:** Legal and ethical implications of biased AI
- **Promoting Inclusion and Equality:** How AI can support or harm social equity
- **Preventing Algorithmic Discrimination:** Case studies on AI bias in hiring, lending, and more

#### **Module 8: AI's Role in Global Sustainability**

- **AI for Environmental Protection:** Applications of AI in combating climate change and environmental degradation

- **AI for Social and Economic Equality:** How AI can be used to promote equitable distribution of resources
- **Sustainable AI Development:** Ethical considerations for creating AI that supports long-term sustainability
- **AI in the Developing World:** Addressing ethical concerns and opportunities in using AI for global development

#### **Module 9: Case Studies on AI Ethical Dilemmas**

- **AI in Healthcare:** Ethical challenges in AI-powered diagnostics and treatment
- **AI in Autonomous Vehicles:** Legal and moral dilemmas in self-driving technology
- **AI in Surveillance Technologies:** Balancing security with privacy in facial recognition and tracking technologies
- **AI in Military and Defence:** Exploring ethical concerns in AI for warfare and defence systems

#### **Module 10: AI Ethics and Law: The Path Forward**

- **Emerging Trends in AI Ethics and Legal Policy:** New directions in regulating and governing AI
  - **Future of AI Regulation:** Debating national vs. global approaches to AI laws
  - **Preparing for Artificial General Intelligence:** Legal and ethical considerations for the future
  - **The Role of International Organizations in AI Ethics:** How global bodies can help shape AI policy
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