

# AI Fundamentals for Federal Employees

This course is designed to introduce federal workers to the world of Artificial Intelligence (AI). This course provides foundational knowledge on AI concepts, its historical development, and its application in federal government operations. Participants will gain a clear understanding of how AI can enhance efficiency, decision-making, and productivity in the public sector, while also addressing the ethical, legal, and regulatory aspects of AI use in federal agencies.

Group classes in Live Online and onsite training is available for this course. For more information, email [onsite@graduateschool.edu](mailto:onsite@graduateschool.edu) or visit: <https://www.graduateschool.edu/courses/ai-fundamentals-for-federal-employees>



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## Course Outline

### Module 1: Introduction to AI

- Overview of the field and its significance to federal employees
- Tracing the origins of AI and its major milestones
- Understanding the importance of both structured and unstructured data
- How cloud storage and computing have accelerated AI's potential

### Module 2: AI Technologies and Architecture

- Machine learning vs. deep learning
- An exploration of key technologies such as neural networks and deep learning models
- LLM and SLM differences, benefits, and real-world applications in federal environments

### Module 3: Ethical, Legal, and Regulatory Considerations for AI in the Federal Workforce

- Addressing bias, transparency, and accountability
- Understanding laws like GDPR and HIPAA and their impact on AI use
- Key initiatives such as the National AI Initiative Act and Executive Orders affecting AI in the federal government