IntelliGenesis AI/ML Specialist

Course Duration: 5 Days

Course Overview

This 5-day, hands-on course prepares professionals to lead AI transformation across the DoD. Aligned with DoD 8140 for AI/ ML Specialists (Work Role 623), it combines expert instruction, real-world labs, and mission-focused scenarios to build secure, ethical, and effective AI systems. The course concludes with a 3-hour certification exam validating your operational readiness.

Prerequisites

- Familiarity with basic data. Structures, statistics, mathematics, algebra, calculus, and computer algorithms
- Proficiency in Python programming and utilizing common data science packages (NumPy, pandas, matplotlib, etc.)
- Prior exposure to collecting, analyzing, and manipulating data
- Laptop with Anaconda/Jupyter environment installed (instructions will be provided)

Course Objectives

From foundational concepts to advanced deployment strategies, you'll gain the skills to design, build, and evaluate AI systems that are secure, ethical, and operationally effective. The course culminates in a 3-hour certification exam that validates your expertise and readiness to support AI initiatives across defense and federal agencies.

During this course, you will gain the skills to:

- Speak the language of AI – Grasp essential terms, frameworks, and tools that power intelligent systems.

Contact Us

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Connect With Us

- Build and apply ML models – Use supervised and unsupervised techniques to solve complex, real-world problems in Python.
- Evaluate and deploy with confidence – Monitor model performance, detect drift, and operationalize your solutions.
- Think like a defender – Integrate cybersecurity principles to protect AI systems from adversarial threats.
- Lead with integrity – Navigate the ethical challenges of AI development and comply with emerging regulations.
- Stay ahead of the curve – Explore future-forward trends and innovations shaping the next decade of AI.
- Get hands-on – Work directly in Python notebooks with step-by-step guidance in an applied learning environment.

Course Outline

The course follows a structured, module-based format that progressively builds your knowledge and capabilities—from foundational principles to advanced, mission-relevant implementation. Whether you're enhancing your current role or stepping into a new one, this training equips you with the skills needed to make immediate and meaningful impact.