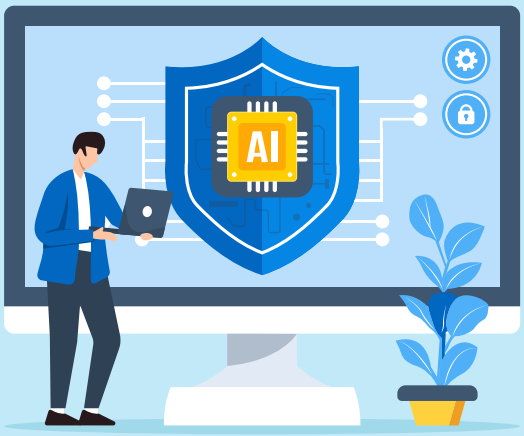
ARTIFICIAL INTELLIGENCE | JOB AID



What is Artificial Intelligence (AI)?

"A machine-based system that can, for a given set of human-defined objectives, make predictions, recommendations, or decisions influencing real or virtual environments." - 15 U.S.C 9401 (3)

Generative AI

Generative AI refers to models that create synthetic content based on input data, including: images, videos, audio, text, and other digital content.

AI Enhances Cybersecurity Through

- Detection
- Mitigation
- Simulations
- Data Analysis
- Content Analysis

Benefits of AI in Cybersecurity

Faster analysis, enhanced simulations, automation of processes, and support for cyber professionals

Risks and Challenges

False positives in detection, outdated or biased learning data, Personally Identifiable Information (PII) exposure within models, ownership and access concerns, and AI tools being used for cyber attacks

Preparing for AI in Cybersecurity

Training: Build AI literacy and learn to spot AI-generated content
Cyber Basics: Avoid inputting PII into models
Securing AI Models: Follow DOD and industry guidance