



ISSG Special Topic Showcase on Copilot and Al

Al Risks & FBI CJIS Data



Carolyn Geason-Beissel/MIT SMR | Getty Images





whoami

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Agenda

- Risks
- Risk Assessments (RA) FBI CJIS Security Policy
- Al and FBI CJIS Data





Artificial Intelligence (AI) Risk

- Conventional Cyber Security Risk
- BIAS Risk
- Privacy Risk
- Regulatory Risk
- Intellectual Property Risk
- Reputational Risk





Artificial Intelligence (AI) Risk Assessment (RA)

What is your level of Risk for your County/City?

Low

Medium

High





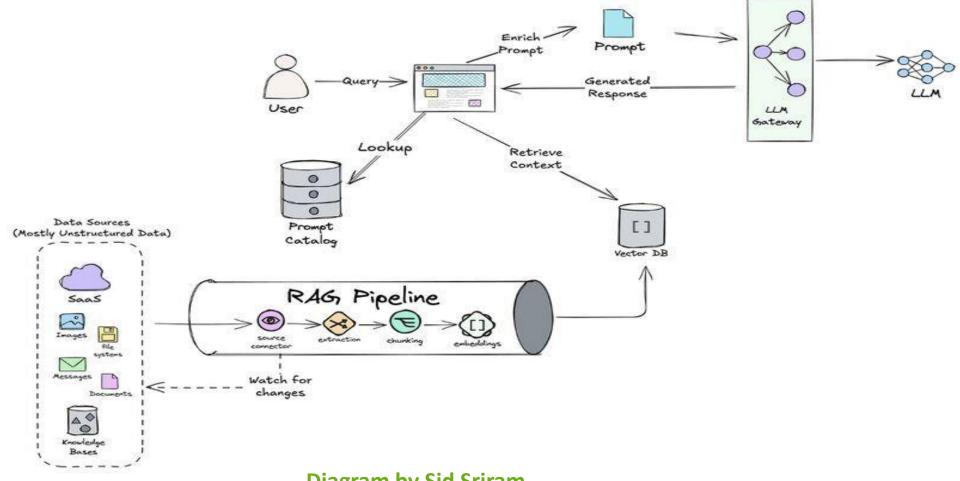
Artificial Intelligence (AI) Risk Assessment (RA) FBI CJIS Security Policy

- RA 1 Policy and Procedures
- RA 2 Security Categorization
- RA 3 Risk Assessment
- RA 5 Vulnerability Monitoring and Scanning
 - (2) updated vulnerabilities to be scanned (24h)
 - (5) Privileged Access
 - (11) Public Disclosure Program
- RA 9 Criticality Analysis





Artificial Intelligence (AI) Risk Assessment (RA) -Data flow of Al





Computer Cooperative

Artificial Intelligence (AI) Risk Assessment (RA) - OWASP Top 10 for LLM

LLM01:2025 Prompt Injection

LLM02:2025 Sensitive Information Disclosure

LLM03:2025 Supply Chain

LLM04: Data and Model

LLM05:2025 Improper Output Handling





Artificial Intelligence (AI) Risk Assessment (RA) - OWASP Top 10 for LLM

LLM06:2025 Excessive Agency

LLM07:2025 System Prompt Leakage

LLM08:2025 Vector and Embedding

Weaknesses

LLM09:2025 Misinformation

LLM10:2025 Unbounded Consumption





Artificial Intelligence (AI) Risk Assessment (RA) - OWASP AI Exchange

 resource for broad AI security & privacy over 200 pages of practical advice and references on protecting AI and datacentric systems from threats.





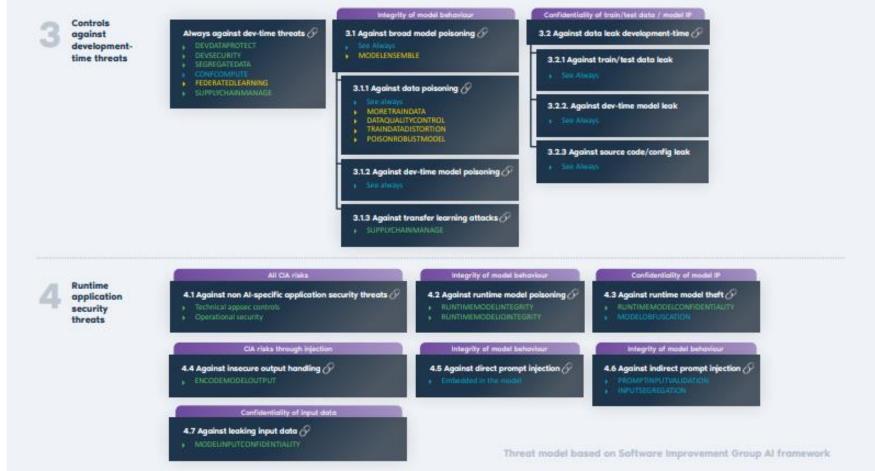
Artificial Intelligence (AI) Risk Assessment (RA) - OWASP AI Exchange – Periodic table of AI security







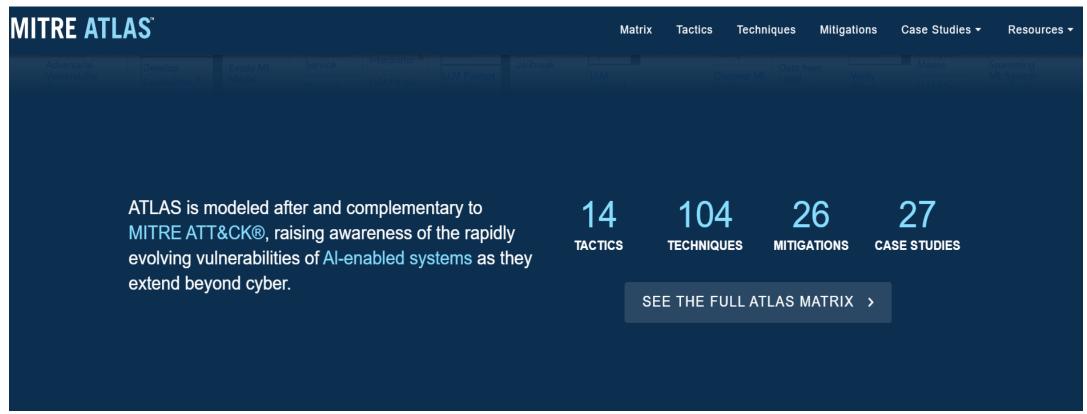
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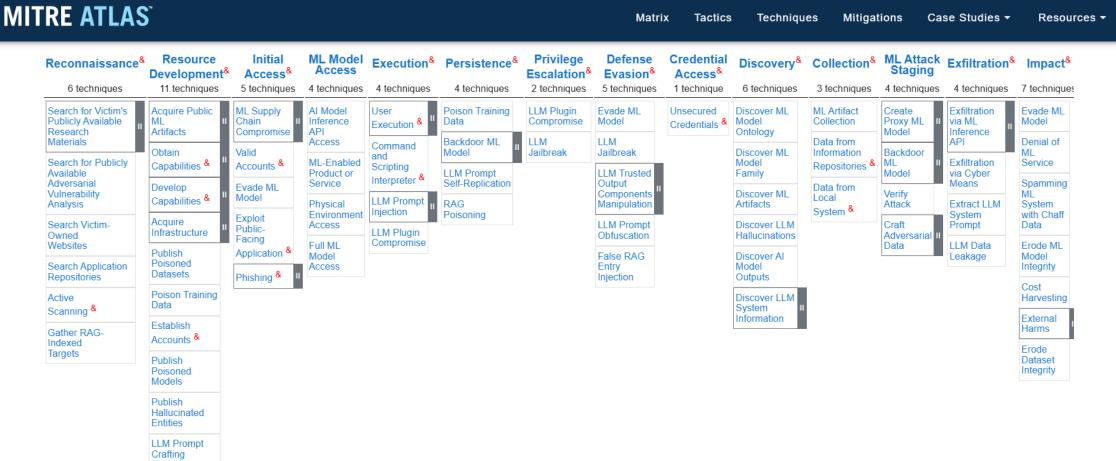
Artificial Intelligence (AI) Risk Assessment (RA) - MITRE ATLAS







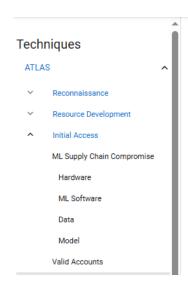
Artificial Intelligence (AI) Risk Assessment (RA) - MITRE ATLAS







Artificial Intelligence (AI) Risk Assessment (RA) - MITRE ATLAS



Home > Techniques > Evade ML Model

Evade ML Model

Summary

Adversaries can Craft Adversarial Data that prevent a machine learning model from correctly identifying the contents of the data. This technique can be used to evade a downstream task where machine learning is utilized. The adversary may evade machine learning based virus/malware detection, or network scanning towards the goal of a traditional cyber attack.

Case Studies ^

ID: AML.T0015

Number of Case Studies: 12

Number of Mitigations: 5

Tactics: Initial Access, Defense Evasion, Impact

Created: 13 May 2021

Last Modified: 27 October 2022





Artificial Intelligence (AI) Risk Assessment (RA) MITRE ATLAS

MITRE ATLAS" Matrix Tactics Techniques Mitigations Case Studies - Resources -

The figure below depicts an example of an Al-enabled system containing a trained Al model and the different types of access time, access points and system knowledge an adversary could leverage.

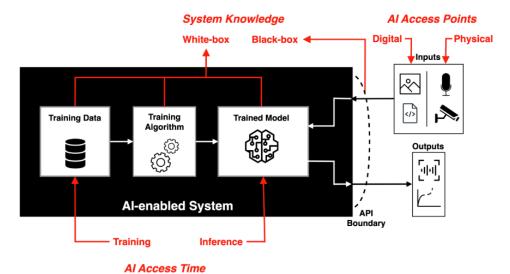


Figure 1: An Al-enabled system and key concepts.

The table below provides high-level descriptions of adversarial attacks and their possible effects on AI-enabled systems. For a comprehensive list we recommend exploring the ATLAS matrix.





Artificial Intelligence (AI) Risk Assessment (RA) - DOE AIRMP E1140



ARTIFICIAL INTELLIGENCE & TECHNOLOGY OFFICE



Artificial Intelligence & Technology Office » DOE AI Risk Management Playbook (AIRMP)

The Department of Energy's AI Risk Management Playbook (AI RMP) is a comprehensive reference guide for AI risk identification and recommended mitigations (actionable pathways) to support responsible and trustworthy (R&T) AI use and development. Although AI RMP is not a binding document, it does encompass some of the most common AI risks and steps that AI leaders, practitioners, and





Al Model Cloud Vendors

- Vendor will tell you -- you get a private instance in the cloud for your AI
 - Read the license agreement
 - Read the user level agreement





Non-Deterministic Al

Characterized by outputs that vary even with the same input

Deterministic Al

Characterized by always produces the same output for the same input



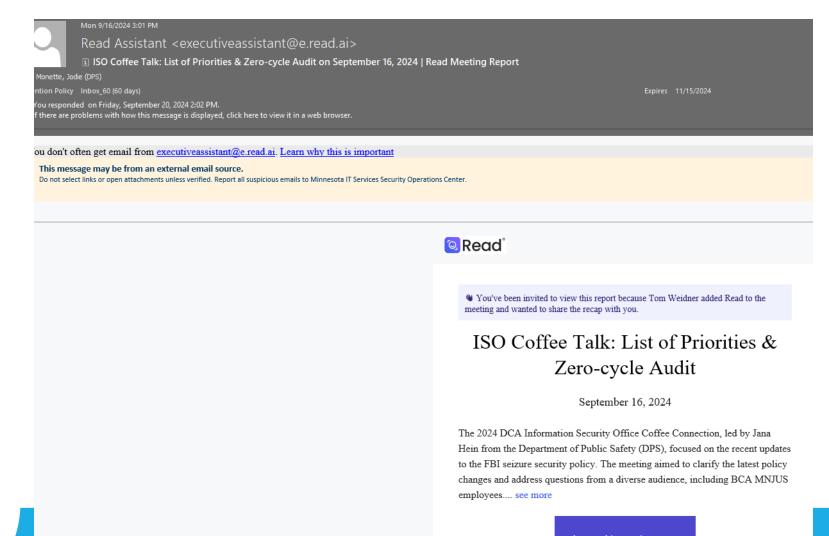


Currently the FBI CJIS position on AI is NO AI used with FBI CJIS data and systems.

Only way - would be in a stand alone system with no connection to the internet.











State of MN

Public Artificial Intelligence Services Security Standard





Copilot & CJIS Issues....

If M365 is county and law enforcement together – Comingled – Copilot must be shutoff.





Artificial Intelligence (AI)

- What is your plan for Al?
- Where is Al already in your Organization?
 Do you know?
- Do you have a policy that governs the use of Al?





Take Away - Artificial Intelligence (AI)

- Inventory Al where is it in your environment?
- Know what the flow of Al data is?
- Put security controls around Al just like production code.





Resources

- OWASP AI Exchange https://owaspai.org
 OWASP Top 10 for Large Language Model
- OWASP Top 10 for Large Language Model Applications | OWASP Foundation – https://owasp.org/www-project-top-10-forlarge-language-model-applications/
- MITRE ATLAS™ -- https://atlas.mitre.org
- SANs.Org Al Cybersecurity Summit 2025 (March 31 & April 1, 2025) Recording will be posted, next week.





Questions?

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•Thank you!!! For taking time out of your busy day.



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