

Building Trust in an AI-Driven World

March 2026



Communications Security
Establishment Canada
Canadian Centre
for Cyber Security

Centre de la sécurité des
télécommunications Canada
Centre canadien
pour la cybersécurité

Canada

Cyber Centre's Role in Cyber Security

- Part of the Communications Security Establishment (CSE)
- Foreign intelligence, Cyber Operations
- Technical Authority for Cyber Security and Information Assurance
- Canada's CSIRT (CERT-CA) Government of Canada CSIRT



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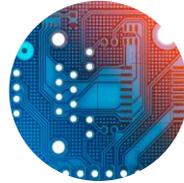
Canada

AI Is Transforming the Way we Work, but...

- Without investment in security, results can be incorrect, misleading or biased.
- Cyber threat actors use AI to increase stealth, lower costs and build scale.



Protect the Model's
Privacy & Integrity



Protect the Model's
IT System



Block Adversary Use
of AI



Protect Privacy & Integrity

Ensure AI tools are used safely, with strong privacy protections and develop clear expectations for AI suppliers



Secure AI Engineering & Supply Chain Processes



Use Human-in-the-Loop Oversight & Execution Control



Maintain Operational Resilience Against Model Drift, Bias & Overreliance

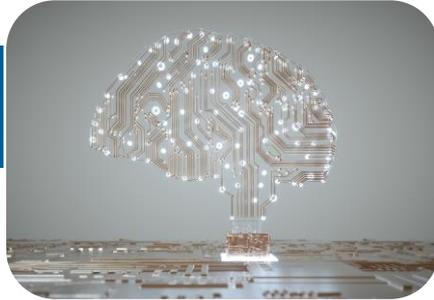


Protect the Model's IT System



Harden the AI Infrastructure

Access to your AI platform gives threat actors powerful capabilities to analyze and exploit your data



Conduct Testing to Identify Modifications

Without sufficient and continuous testing, modifications to AI systems can remain undetected



Safeguard Against Data-Poisoning

Understand how your model is trained, the data sets used by agents and protect them



Set strong controls on who has access to your AI system

An AI system can be used as an oracle to extract sensitive information



Protect Against Adversaries

AI has fundamentally tilted the playing field to benefit threat actors

Every attack can be thoroughly researched, automated and obfuscated



Keep Ahead of New Attacks; Quickly Deploy Mitigations

We are learning how to use AI and so are threat actors. Update your defences continuously.



Defend Against Deepfake & Impersonation

Threat actors use AI-powered deepfakes to impersonate, shape opinions and manipulate.





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