Assemblyline — Canada's Machine-Learning Malware Triage Platform Defending Government Networks

AI in the Public Sector · Good practice · Canada

Quality score: 80/100

Evidence strength: Descriptive / self-reported

Summary

Canada's signals-intelligence agency runs Assemblyline, an open-sourced ML malware triage platform, plus a separate classifier flagging threats commodity antivirus misses across ~900,000 government devices, blocking 6.6 billion malicious actions daily.

Key dimensions

Dimension	Score
Evidence of impact / measured public value	2/3
Transparency, fairness & accountability	2/3
Transferability / demonstrated replication	3/3
Scalability beyond pilot	3/3
Governance, capability & sustainability	2/3

Evaluated by C-NAPSE

Data sources

C-NAPSE web research — accessed 2026-08-12

Communications Security Establishment (CSE) / Canadian Centre for Cyber Security — accessed 2026-08-12

CSE Annual Report 2023-2024 — accessed 2026-08-12

CSE AI Strategy — accessed 2026-08-12

ICTC-CTIC Analysis — accessed 2026-08-12

The Walrus — accessed 2026-08-12

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