



Machine Learning Threat Detection Readiness Checklist

Instructions

Use the checklist below to assess your organisation's readiness for AI-driven cybersecurity monitoring and operational resilience.

Score your organisation using:

- Yes = 2 points
- Partial/In Progress = 1 point
- No = 0 points

Assessment Questions

Visibility & Monitoring

- We maintain centralised visibility across endpoints, users, and cloud systems.
- We actively monitor authentication activity and login anomalies.
- We have tools capable of detecting unusual behavioural patterns.
- Our organisation reviews security alerts consistently.
- We can identify suspicious user activity quickly.

Identity & Access Security

- Multi-factor authentication is enabled across critical systems.
- Privileged account access is limited and reviewed regularly.
- Former employee accounts are removed promptly.
- Third-party access permissions are monitored carefully.

Remote access activity is logged and reviewed.

Employee Awareness

Employees receive regular phishing awareness training.

Staff understand how to report suspicious activity.

Executives participate in cybersecurity awareness initiatives.

Employees understand social engineering risks.

Cybersecurity awareness is treated as an ongoing operational priority.

Incident Response Readiness

We maintain a documented incident response process.

Roles and escalation responsibilities are clearly defined.

Critical systems and operational priorities are identified.

Backup and recovery procedures are tested regularly.

Leadership understands incident communication procedures.

AI & Vendor Governance

We understand how our AI security tools generate alerts.

We evaluate cybersecurity vendors beyond marketing claims.

Security monitoring systems are reviewed for effectiveness regularly.

We understand the limitations of machine learning detection.

Human oversight exists for major security decisions.

Scoring Results

40–50 Points — Strong Maturity

Your organisation demonstrates strong operational cybersecurity awareness and appears to maintain a mature approach toward monitoring, governance, and resilience planning.

Continue refining:

- visibility,
 - employee awareness,
 - vendor oversight,
 - and operational readiness.
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20–39 Points — Moderate Exposure

Your organisation has foundational cybersecurity measures in place but may still face operational gaps that increase risk exposure.

Focus on:

- improving monitoring visibility,
 - strengthening employee awareness,
 - clarifying response procedures,
 - and reviewing identity security controls.
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0–19 Points — High Vulnerability

Your organisation may face significant exposure to preventable cyber incidents.

Immediate priorities should include:

- visibility improvements,
- phishing awareness training,
- incident response preparation,
- access control reviews,
- and stronger operational governance.

Cybersecurity resilience improves through steady operational progress.