

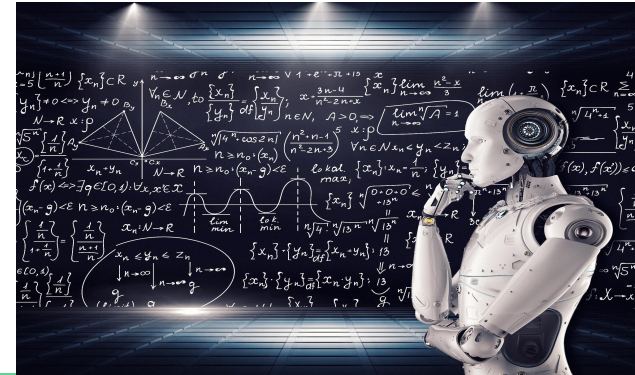
Artificial Intelligence and Cybersecurity

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The ways Artificial Intelligence can prevent, protect against and stop network attacks

- In essence, AI can learn normal network activity and flag anything that deviates from that baseline as a potential threat, enabling faster and more effective responses to cyberattacks. AI can protect, stop, and prevent network attacks by:
- analyzing vast amounts of network data in real-time to identify anomalous behavior;
- detecting potential threats before they materialize;
- automating security responses; identifying phishing attempts;
- analyzing user behavior for suspicious patterns;
- and providing predictive threat intelligence.



Cybersecurity Threats to Businesses



1. Ransomware & Malware
2. Endpoint Attacks
3. Phishing
4. Third-Party and Supply Chain Attacks
5. Machine Learning and Artificial Intelligence Attacks
6. IoT Attacks
7. Inadequate Patch Management
8. Formjacking
9. Cryptojacking
10. A Severe Shortage of Cyber Security Professionals

Hypothesis: If AI is used in protecting a computer system then cybersecurity can be an autonomous system that fights cyber-attacks without human intervention.

What do you think will happen?



Video on the possibility of AI to work as a cybersecurity tool



Conclusion

There are a lot of gaps in research as to how AI can be used to implement a cybersecurity system that can work without human intervention. This leads to an opportunity to research, develop and invent more sophisticated uses of AI in cybersecurity.

What will I do next?

This topic is my current dissertation topic at a Doctoral of Computer Science major at Colorado Technical University. I am filling a gap in research on how AI can complete a specific cybersecurity task without human intervention.

