Don't Get Hacked: Let AI Guard Your Gate

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Cyber Attack in Banking Channels

ATM

- Malware
- Card Skimming
- ATM Jackpotting
- Remote attacks targeting ATM network
- Man-in-the-Middle Attack
- Ransomware

POS

- Malware
- Card Skimming
- Spoofing
- Key logger
- Network Sniffer

DIGITAL CHANNELS

- Phishing
- Pharming
- DoS (Denial of Service)
- Password, DB Theft
- Man-in-the-Middle

BANKING APPLICATIONS

- DDOS
- Financial fraud-Check approval, Money Transfer
- Disclosure of sensitive data
- Loss of data integrity (unauthorized changes may take place)
- Privilege escalation– become a more powerful CMS user

Current Cybersecurity Challenges

- **Geographical distance**
- **Growing expenses**
- **Advanced cyber-threats**
- **Increasing complexity of cybersecurity regulations**
- **Cyber-attackers` anonymity**

The need for AI in Cybersecurity

All financial institutions need advanced threat detection methods.

AI in cyber-security helps to avoid these monetary and reputational consequences.

How AI Improves Cybersecurity

- **Threat Hunting**
- **Managing Vulnerabilities**
- **Risk And Compliance**
- **Identification Unknown Threats**

Future of AI in Cybersecurity

AI-based technologies might be the only solution to the threats of cybercrime in the future.

1. The AI-powered software does predictive analysis based on the data from machine learning.
2. They let us know beforehand about the potential breaches in our system.
3. Their process is far more efficient and faster than human eyes.
4. They can estimate the time and location of the potential cyber attack.
5. Their prediction and estimated data can lead to accurate detection and concentrated fortification of the system against cyber attacks.

According to CSO online article, about 51% of respondents from different financial organizations claimed that their security team lacked cybersecurity skills. Financial sectors are feeling the impact of a shortage in cybersecurity staff. AI can amplify the limited abilities by scanning the real time data and finding potential threats.

Future of AI in Cybersecurity

1. **Advanced Threat Protection (ATP)**
2. **Security Orchestration, Automation, and Response (SOAR)**
3. **Endpoint Detection and Response (EDR)**
4. **Web Application Firewall (WAF)**

Future of AI in Cybersecurity

5. AI Can Handle a Lot of Data

6. Duplicative Processes Reduce

7. Battling Bots

8. Breach Risk Prediction

AI driven SOC

AI Driven SOC

- **Human-Machine Teaming**
- **Prioritize the risk**
- **AI can handle the volume**
- **Artificial intelligence identifies unknown threat**
- **AI cybersecurity can learn over time**

AI driven EDR

- **Reduce security alert volume**
- **Improving team efficiency.**
- **Behavioral Protection**

AI based WAF

- **SQL injection**
- **Remote command execution**
- **Remote file inclusion**
- **Local file inclusion**
- **PHP injection**
- **Memcache injection**
- **Cross-site scripting (XSS)**

AI for Intrusion Detection

THANK YOU &
QA

https://threatmap.checkpoint.com/