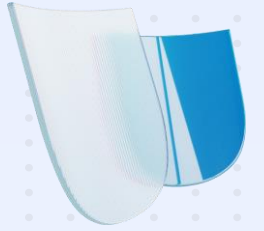


Deutsche TELEKOM Security

How AI Affects Cyber Security



How AI is seen mostly



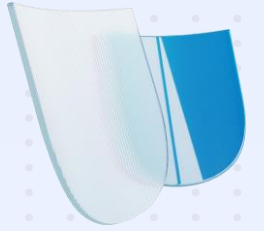
how is AI seen mostly, only bulletpoints



- Innovative and transformative technology
- Critical driver of economic growth
- Job displacer and creator
- Source of ethical and social concerns
- Safety and control challenges
- Beneficial in everyday life through consumer products
- Varied portrayals in entertainment and popular culture
- Field with significant academic and research interest



Is AI really new?



Fancy? - YES



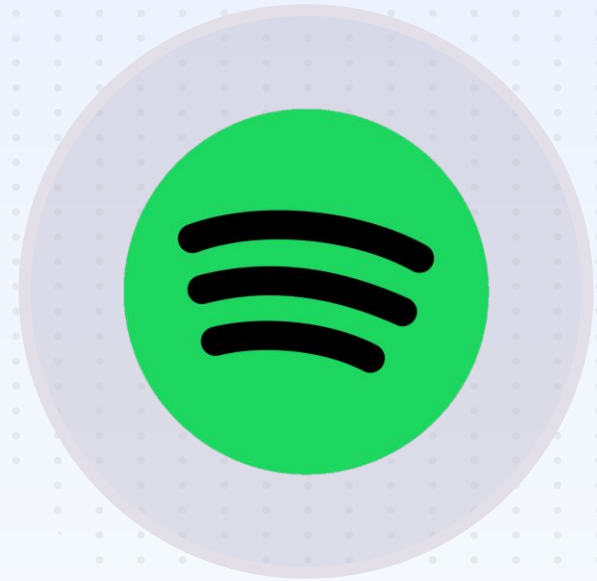
New? NO! =)



Tells us what we want to **see**

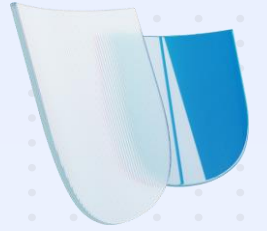


Tells us what we want to **buy**



Tells us what we want to **listen** to

Do Criminals use AI as well?



What is Fraud and Worm GPT in a few words



- **FraudGPT:** AI for generating phishing emails and scams.
- **WormGPT:** AI for creating and spreading malware.



1 2 3 4 Next



HACKER'S GUIDE TO SENDING PROFESSIONAL PHISHING EMAILS

by [redacted] - 20 May, 2023 - 04:52 PM

3456

[redacted]

GP 20 May, 2023 - 04:52 PM (This post was last modified: 21 May, 2023 - 11:51 AM by [redacted] Edited 3 times in total.)

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Emails in hacking are old but very effective until this day as hackers use them in various stuff such as phishing/spamming...

Unfortunately there's a big struggle when it comes to these emails as they get detected by email providers and they get flagged as Spam.

In this Guide I'm gonna help you ensure that your phishing emails reach the inbox section and avoid the detection of email providers so let's Start.

Hidden Content

1. Invest in a Professional SMTP

Yeah the truth sucks but you can't send bulk phishing emails without a reliable SMTP server, you can crack it but I always find cracked SMTPs unreliable so if you want to send professional Phishing Emails this step is very important and most hackers and phishers use OFFICE365.

2. Use a professional language and don't make grammar mistakes

Depends on what language your phishing email is gonna be (Mostly English because it's a global language). Making language mistakes Will increase the rates of your detection and once that happens people will report you and your email will fail no matter So check your grammar thoroughly and it's actually best to use professional academic english like that harvard university shit you can pass your email through online grammar checkers or you can even ask ChatGPT to generate a professional email and here's a tip for those who are not natives, you could write the email in your own native language, translate it through Google Translate then pass it through ChatGPT so the language will become more academic.

AI in Infosec



From detection to Prevention: The Evolution of AI in Security

Artificial intelligence (AI) plays an increasingly important role in IT security. The development in this area can be roughly divided into **three phases**:



How AI could be used in Info Sec



AI – Offensive use



AI – Defensive use



Securing AI

AI – Offensive use



Penetration testing, Red Teaming, etc.

- Automatic information gathering
- Analyze data and determine different courses of action for attack phases
- Cost and time efficiency
- Reporting incorporating threat intelligence and past knowledge for actionable insights

Adversaries

Highly skilled

Optimal AI use for advanced cyber operations, including sophisticated malware generation against networks.

Skilled

Significant AI-driven capability boost in reconnaissance, social engineering, and exfiltration, likely spreading AI tools to less experienced cyber attacks

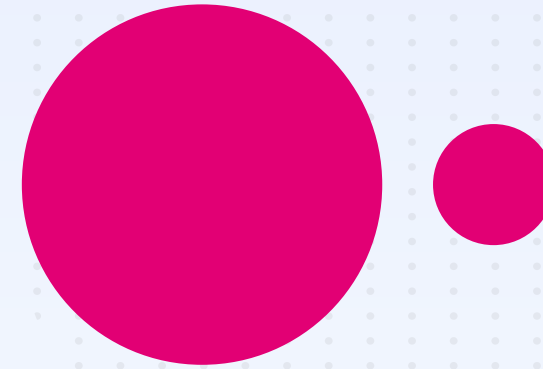
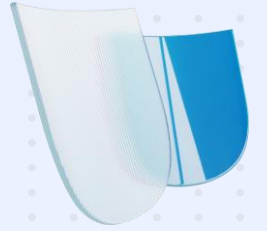
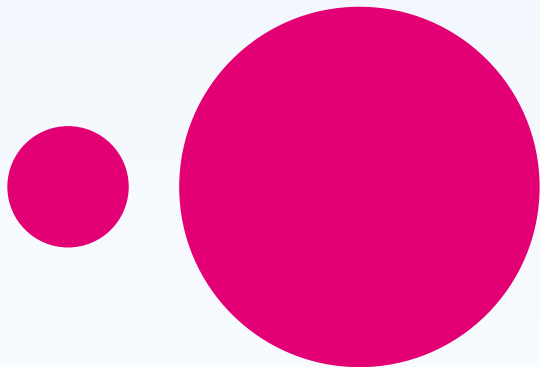
Low-skilled

Reduced entry barriers for efficient and scalable access operations, leading to a rise in successful compromises of devices and accounts

AI – Defensive use

Lowering the bar

- Smart, adaptive automation tools provide timely advice on newly discovered configuration issues
- Automatically adjust settings as needed
- AI and ML ensure consistency with manual processes and updates
- Supports in logging activities and data mining as well as data analysis



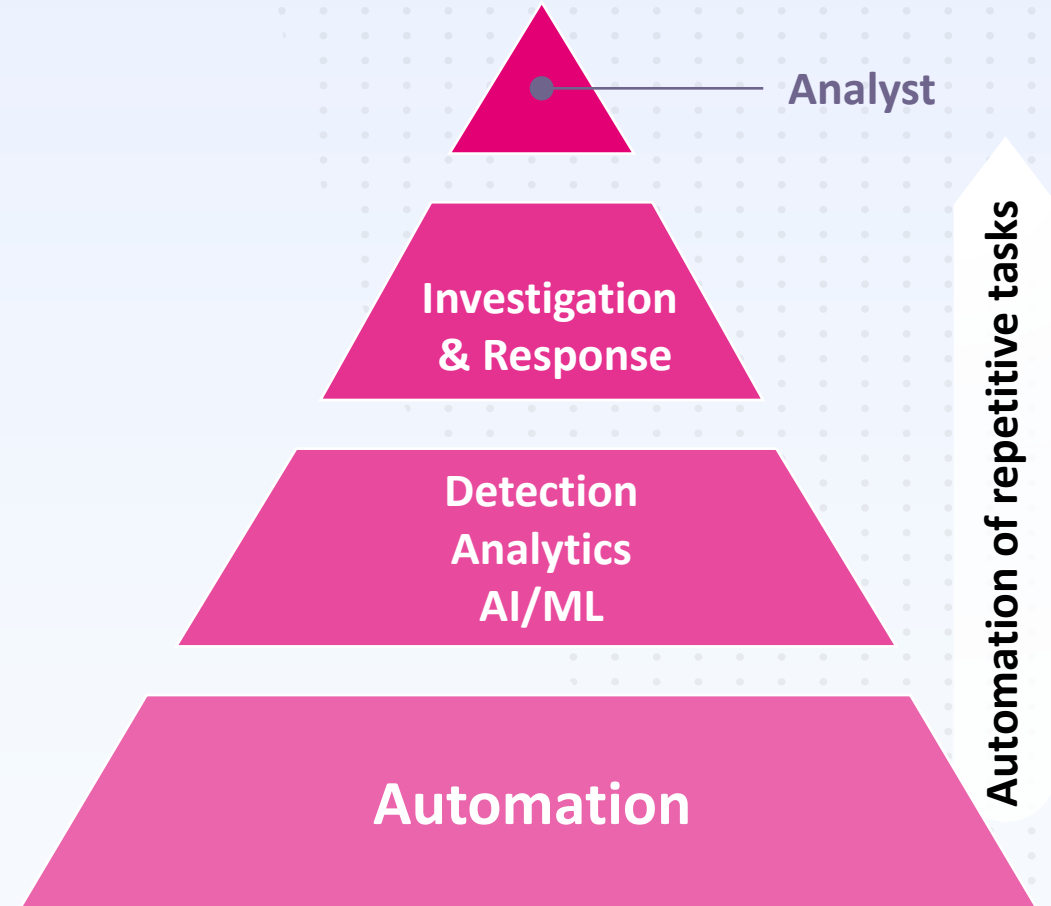
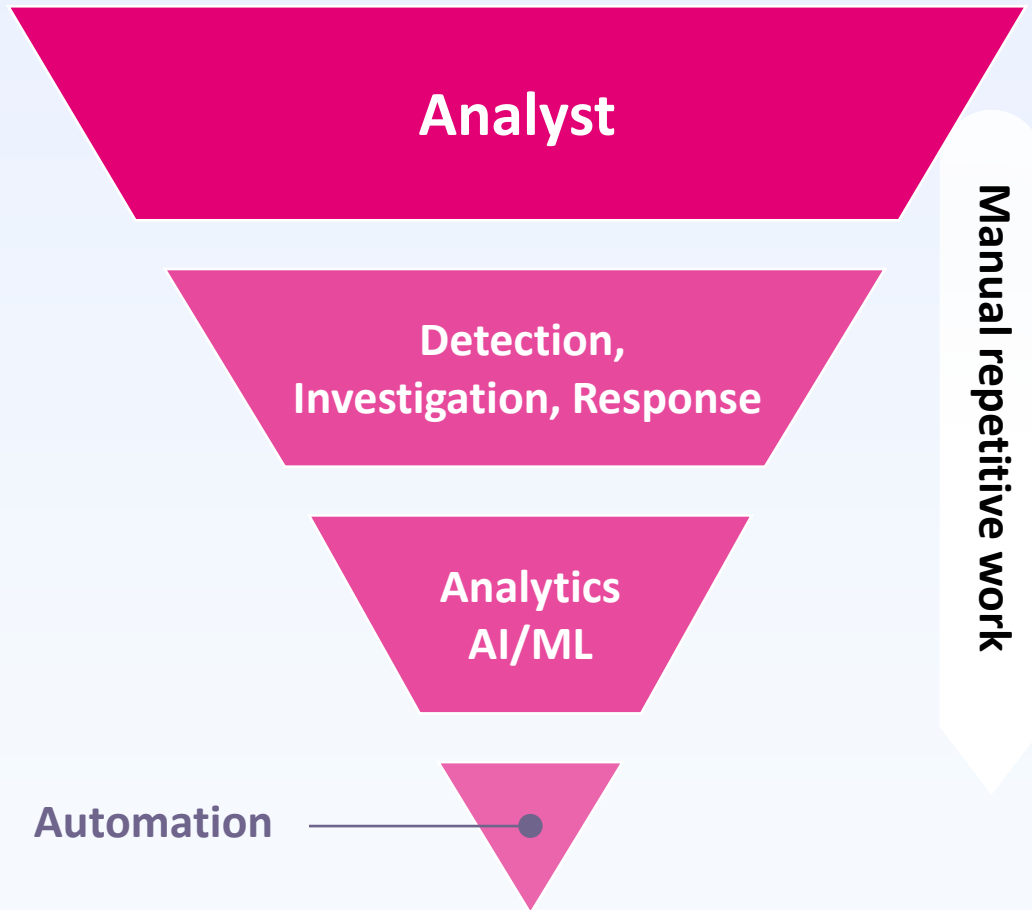
Improving the tech

- Cyber attacks often build on past behaviours, frameworks, and codes
- Machine learning leverages past attacks to identify new threats
- ML helps highlight commonalities and spot attacks more effectively
- ML facilitates prediction of new threats, reducing lag time
- Immediate grouping and analysis of attack

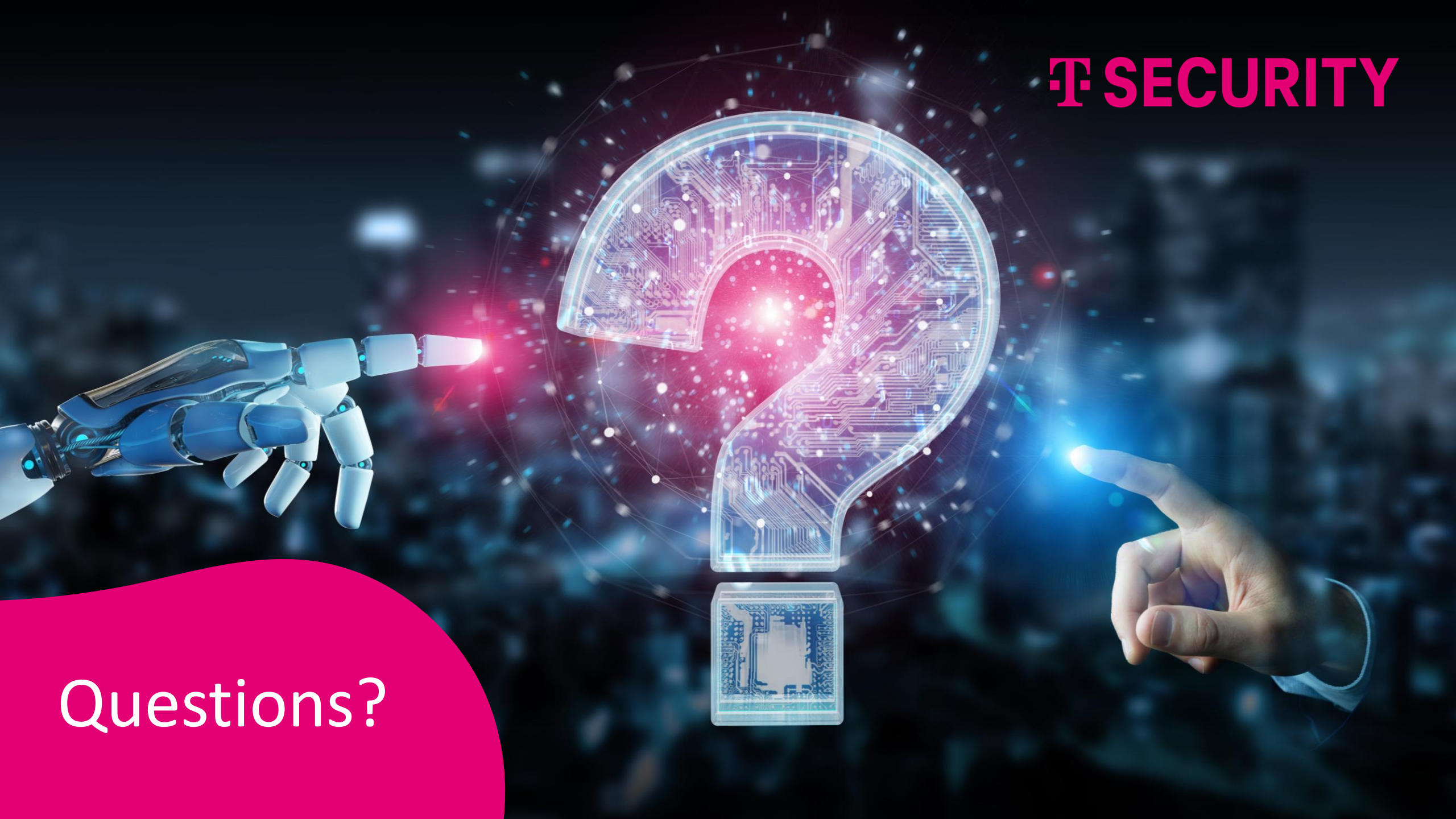
Secure AI Usage

Description	Security – Stakeholders should consider...
Application	<ul style="list-style-type: none">• Additional attack vectors – as AI is accessible via different endpoints• Additional security risks associated with AI-application• Possibility of data breaches and privacy violations
Prompt	<ul style="list-style-type: none">• Prompt injections (models are instructed to deliver false or bad responses)• Manipulation of prompts might lead to unauthorized access to content
Foundation model	<ul style="list-style-type: none">• Monitor foundational model behavior and outputst → Identify anomalies , attacks, or deviations from expected performance• Provide support for private models or sandboxes → Ensure isolation and privacy of sensitive information• Implement model-level filters to Safeguard data, reduce bias• Enhance overall integrity of model outputs
Application	<ul style="list-style-type: none">• Ensure appropriate use of sensitive/proprietary data• Maintain direct control over handling this data handling• Tailor incident response plans (specifically data breach incidents)• And outline clear, effective procedures to ensure timely and efficient response
Humans aspect	<ul style="list-style-type: none">• Humans play a crucial role as they play a part in many aspects mentioned above• Employees must be trained to minimize risk of sensitive data loss through careless prompts

Example: SOC Workflow now and then



T SECURITY



Questions?

Let's connect!



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