Generative Al's Impact on Security & GRC

Charles Gillman

https://www.linkedin.com/in/charles-gillman/

@fullstackciso



The New Frontier in Cybercrime: The Dark Side of Al



Cybersecurity Skills Shortage: Can Al Bridge the Gap?

Cyberskills

- SAST

Secure

Threat Modelling

- Can provide insights into the output of tools
- SIEM integration

• Address the global skills gap and shortage of labour

- Using Al becomes L1, L1 becomes L2...
- Acceleration of upskilling
- Al-powered Cyber Security Awareness training

- Completing 3rd party questionnaires
- Writing security policies
- Creating cross walks of security frameworks

Incident Response

Penetration Testing

- PentestGPT
- Chaining LLMs with Burp

Al Integration: Vendors Fast Tracking Al in Cybersecurity Tools





·/: Recorded Future Analyst GPT









Security Analyst Workbench



Fix Al



Governance for Al

Embracing AI: Balancing Security & GRC



BYOAI

Al is becoming ubiquitous



Implementer

Security, Privacy and GRC implications for customer data



Consumer

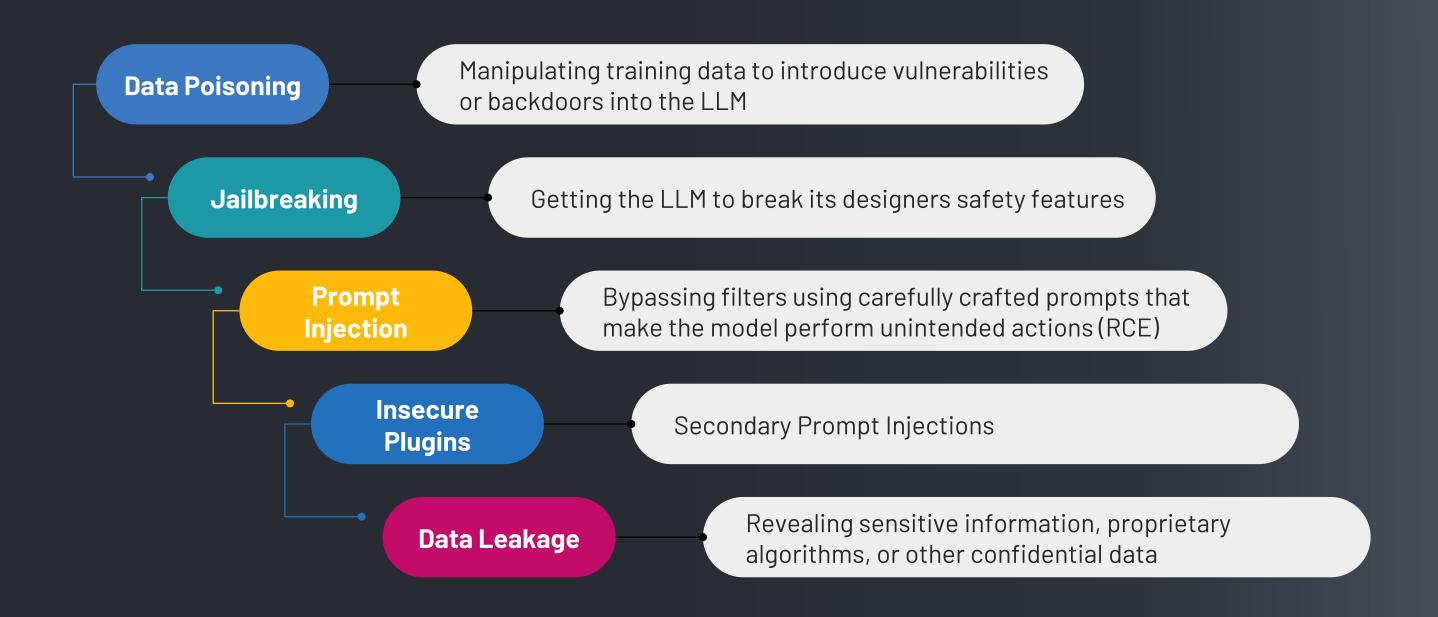
Security, Privacy and GRC implications for corporate data



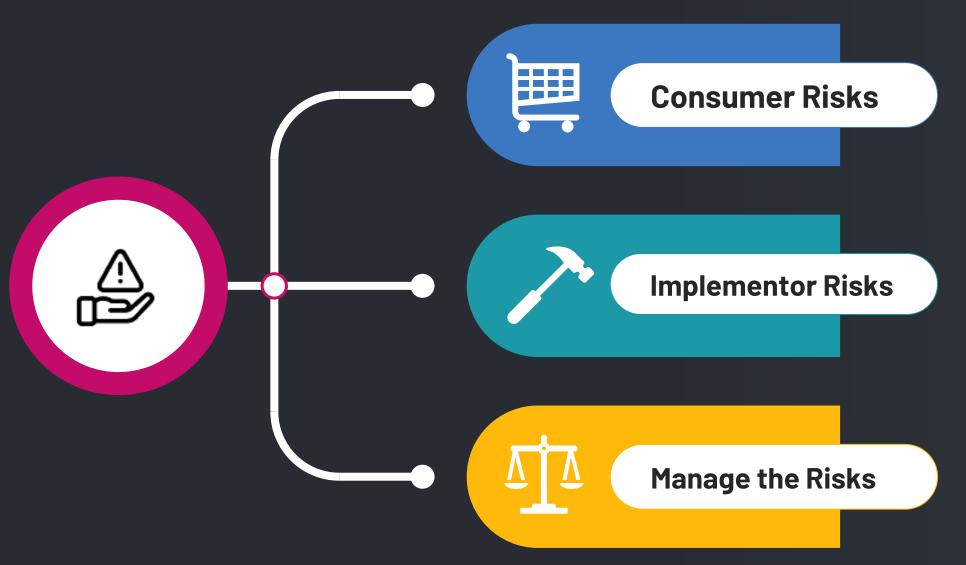
Vendor Al Risk

3rd Party Al Risk Assessment

Trust: Generative Al's Achilles' Heel



Risk Management: In the Al Era



- Bias
- Hallucinations
- Decisions based on output
- The Al Attack Surface Map
- MITRE Atlas
- OWASP Guide to Al Security & Privacy
- OWASP LLM Top 10
- Cloud Security Alliance Security Implications of using ChatGPT
- Team 8 Generative Al Enterprise Risks
- MITRE Sensible Regulatory Framework for Al
- NIST Al Risk Management Framework
- Private Al Models

Guardrails for the Future: The Role of Al Governance

Implementor

Responsible Use of Al Standard/Policy

Al Impact Assessment

ISO42001 Artificial Intelligence Management System

Communications

Explain how AI will and won't be used

Captured in Privacy
Policy



Consumer

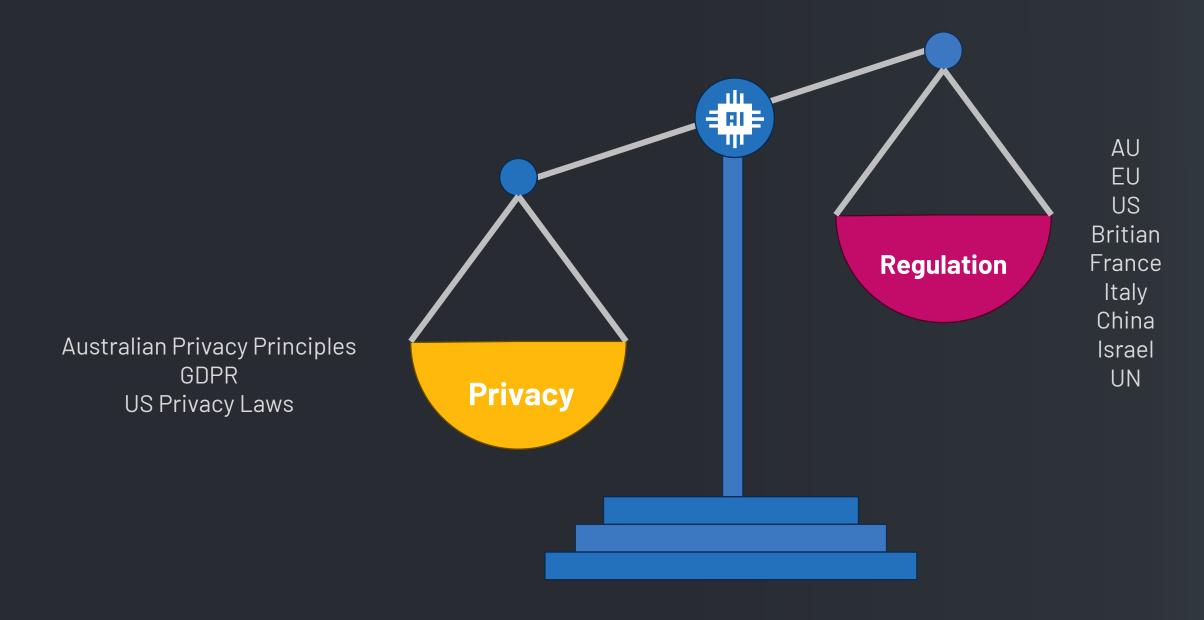
Al Acceptable Usage Policy

Al Usage Policy

Al Strategy

Strategic plan on how the company will consume and implement Al

Al: Under the Regulators Lens



Recap:

