

# AI Security Cheatsheet

## AI and Security

The concept of AI security has different aspects:

Securing AI systems from cyberattacks	Using AI technologies for security purposes	New security risks caused by using AI
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This document focuses on securing AI systems.

## What is AI Security

**AI Security** focuses on protecting AI systems from malicious attacks and unauthorised access, ensuring the system remains intact and operational.

AI Security applies to:

<b>IT infrastructure</b> software, hardware	<b>AI model</b> model, datasets	<b>Product</b> user data, prompts and responses
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AI Security is NOT equal to:

<b>Open source</b> fosters the transparency, accessibility, and collaborative development of AI systems	<b>Benchmarking</b> evaluates the security of AI systems by comparing their performance against established standards or benchmarks	<b>Compliance</b> ensures that an organisation adheres to legal and regulatory requirements
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Open source, benchmarking, and compliance, while necessary, do not guarantee that all security risks are addressed.

## Security vs Trustworthiness vs Safety

There is a difference between security, safety, and trustworthiness of AI.

<b>Security</b> is a process of defending AI systems from cyberattacks	<b>Trustworthiness</b> is the property of AI systems that consistently perform as expected	<b>Safety</b> is the practice of ensuring AI systems operate without causing harm
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AI trustworthiness and safety cannot be achieved without AI security.