

Cyber AI Response

Embedding AI in your enterprise to fight back against advanced attacks – before they do damage

At A Glance

- More corporations hit by automated and fast-acting cyber-threats
 - Traditional security defenses are inadequate
 - Artificial intelligence can neutralize attacks in seconds
 - AI will also be utilized by attackers in the future
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Fast-Evolving Threats & A New Business Landscape

Cyber security is one of the number one risks to businesses today. The problem is characterized by three fundamental challenges: the complexity of enterprises' digital infrastructures, the speed and sophistication of today's attacks, and the strain on overwhelmed security teams.

In recent years, businesses have hungrily adopted new technologies - from cloud computing to the Internet of Things. But this expansion of the corporate network has also expanded the attack surface. Today, it's a question of when, not if, you are targeted. Yet security teams are often so busy dealing with low-level intrusions that they have little time for long-term remedial work, while being entirely ill-equipped to preempt novel, advanced attackers, or deal with insider threat.

New generations of cyber-threats are emerging continually. Fast-moving malware can now wreak havoc well before humans have time to respond. Other attacks are using sophisticated techniques to blend into the background, and achieve a long-term presence in their target environment.

Today's attackers get past traditional security alarm systems because those systems can't predict what's round the corner – they can only look at what happened yesterday, and block known attacks.

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With a new threat to face every day, traditional tools designed to spot known threats are no longer sufficient.

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VP, IT & Information Security, Inphi



AI in the enterprise: the why & how

AI has fundamentally changed the security paradigm, enabling organizations to tackle today's most advanced attacks as they strike, and freeing up security teams to focus on higher-value work.

The power of AI lies in its unique ability to tell friend from foe amid the noise of complex digital systems, and respond to the threat autonomously. Indeed, by continuously learning the normal behavior of everyone and everything in a business from the ground up, Darktrace's artificial intelligence can discern subtle deviations indicative of an emerging threat, and fight back before it has time to escalate into a crisis.

Thousands of organizations worldwide rely on Darktrace cyber AI. It is relied on to not only detect the unknown attacker but also to fight back against it in real time. Like a 'digital antibody', the self-learning technology takes precise action to contain in-progress threats within seconds – from an insider threat on your office floor, to an automated strain of ransomware attempting to move laterally across the network.

In the fight against advanced cyber-criminals, Darktrace Antigena is being harnessed to transform even the most complex and vulnerable organization into a resilient, self-defending digital business. And indeed, as threat actors begin to power their own arsenals with AI to deliver targeted attacks at scale, Darktrace's cyber AI will be ready, prepared to adapt and defend at any moment.

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Darktrace Antigena acts faster than
any security practitioner could to
prevent damage from attacks.”

451 Research

Darktrace Antigena Benefits

- Responds in seconds
- Effective against all threats, including insiders
- No disruption to normal business
- Controlled via the Darktrace Mobile App

Case Study: Interrupting Automated Attacks

At 7.05pm on a Friday, an employee at a large telecommunications firm accessed his personal email from his corporate smartphone and was tricked into downloading a malicious file.

A new, advanced strain of ransomware infected the device. The attack was automated and spread faster than ordinary ransomware.

Because Darktrace AI understood the device's normal 'pattern of life', it identified the threat and responded, interrupting the ransomware's malicious connections within 9 seconds of the attack's onset. A corporate crisis was averted, as critical data was safeguarded.

To learn more, read our white paper on:
['Darktrace Antigena: The Future of AI-Powered Autonomous Response'](#)

About Darktrace

Darktrace is the world's leading cyber AI company and the creator of Autonomous Response technology. Its self-learning AI is modeled on the human immune system and used by over 3,000 organizations to protect against threats to the cloud, email, IoT, networks and industrial systems.

The company has over 900 employees and headquarters in San Francisco and Cambridge, UK. Every 3 seconds, Darktrace AI fights back against a cyber-threat, preventing it from causing damage.

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