Cyber AI Platform

Enterprise Immune System

Powered by Darktrace's world-leading AI, the Enterprise Immune System combines real-time threat detection, digital visualization, and advanced investigation capabilities in a single, unified system that is easy to install. Based on the principles of the human immune system, the solution is self-learning, detecting novel threats without using prior assumptions of what 'malicious' activity looks like.

Key Benefits

- ✔ Learns on the job
- ✔ Detects novel attacks at their earliest stage
- ✔ Installs in under an hour
- ✔ Executive-friendly
- ✔ Cuts investigation time by 92%

Covers the Entire Enterprise

Darktrace's platform approach means that the Enterprise Immune System protects data and systems wherever they are, correlating its insights across diverse environments. This includes:

Cloud	SaaS	Email
On-premise network	IoT	Operational Technology

Limitations of Traditional Security Solutions

Perimeter controls are dependent on signatures and rules – if they miss an attack at the point of entry, they have failed and cannot take further action. Legacy systems such as firewalls, endpoint security methods and other tools such as SIEMs and sandboxes are becoming insufficient to counter the speed and sophistication of attacks.

Self-Learning

Powered by unsupervised Machine Learning, the Enterprise Immune System works by forming a complex understanding of what is 'normal' for your environment as it evolves. Instead of relying on signatures, the Enterprise Immune System establishes a 'pattern of life' for the entities in your infrastructure – users, devices, clouds and containers, and uses this knowledge to identify anomalous activity.

Threat Visualizer

With an intuitive and easy-to-use graphical interface, threat visualization and investigations are simplified. The Threat Visualizer provides real-time visibility of your entire environment, it enables your team to focus on the highest-priority threats, while giving you the option to drill down into more detail.

Cyber AI Analyst

Cyber AI Analyst combines the expertise of world-class human analysts with the speed and scale of AI. Powered by various forms of machine learning, the Cyber AI Analyst learns from a rich data set built up over thousands of deployments. By learning how expert humans investigate threats, the Cyber AI Analyst augments human teams by forming hypotheses and reasoning to conclusions at a speed and scale that no human ever could, conducting expert investigations at machine speeds to provide automated, triaged threat reports

Unsupervised Machine Learning
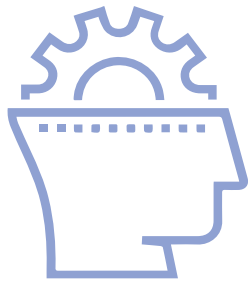
Darktrace AI is powered by unsupervised machine learning, which can uncover rare and previously unseen deviations in network behaviors. Unlike supervised approaches, unsupervised machine learning does not require labeled training data, and is able to identify key patterns and trends in the data without the need for human input.

Founded with the vision of delivering the world's first autonomous cyber defense platform, Darktrace uses unsupervised machine learning algorithms to analyze digital activity at scale, and makes billions of probability-based calculations from the evidence it sees. This approach allows it to form an understanding of the 'normal' behaviors of devices, users and networks which evolves with your business, and detect deviations from this evolving 'pattern of life' that may point to a developing threat.

What Our Customers Say

"

The Enterprise Immune System is our core defense – it arms us with world-leading AI technology that detects and autonomously responds to genuine threats across the entire infrastructure, including IoT devices. "

- CIO, Penn Highlands Healthcare

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After deploying the Enterprise Immune System, it's like we have a 24/7 security team. The AI alerts us to threats we would never have known about. For us, deploying Darktrace wasn't an option; it was a necessity. "

- Director of Innovation and Technology, City of Auburn

"

Darktrace's AI constantly monitors our digital infrastructure and takes intelligent, preventive action to stop any threats from escalating into a crisis. "

- CISO, Korea Midland Power

For more information

| Book a demo now | Machine learning white paper | Hear from our customers |