DARKTRACE

Company Background

Darktrace is one of the fastest-growing cyber security companies in the world, and a global leader in AI for the enterprise. Founded in 2013 by mathematicians from the University of Cambridge and cyber intelligence experts, the company's flagship AI platform, the Enterprise Immune System, is widely recognized for its innovation in allowing organizations from all industries to protect against the most advanced cyber-threats. The company is valued at $1.65 billion, with over 800 employees and 40 offices worldwide. It is headquartered in San Francisco and Cambridge, UK.

Darktrace & Artificial Intelligence

Darktrace's artificial intelligence is world-renowned for its ability to uncover never-seen-before cyber-attacks within an organization and neutralize them in real time.

Based on advances in machine learning and mathematics developed in Cambridge, UK, Darktrace's technology works by observing digital patterns and behaviors, and establishing an understanding of the organization's evolving 'pattern of life'. From this, it can detect novel cyber-threats as they emerge.

Darktrace's AI has also heralded a new era of autonomous response, where a machine system is sufficiently intelligent to understand when and how to 'fight back' against in-progress cyber-threats. It can do this faster than a human, giving security teams precious time to catch up.

Enterprise Immune System

The Enterprise Immune System is Darktrace's multi-award-winning technology platform for cyber defense, allowing for the detection, investigation and neutralizing of cyber-threats across the digital enterprise, including the cloud, virtualized environments, SaaS applications, and industrial control systems.

Powered by AI, and inspired by the human immune system, the Enterprise Immune System does not require knowledge about past threats to detect future ones. Instead, it is a self-learning system that identifies the sophisticated threats that exist within the network perimeter, and which bypass traditional security controls.

These include:

- Zero-day attacks
- Subtle and stealthy attacks
- Insider threat
- Ransomware
- IoT hacks
- Cryptocurrency mining

FAST FACTS

- HQ: San Francisco and Cambridge, UK
- Employees: 800+
- Offices: 40
- Total contract value: $500m
- Valuation: $1.65bn
- CEOs: Nicole Eagan and Poppy Gustafsson

> "Darktrace is one of the few cases where talk about use of AI in cyber security has turned into action."
> **Ovum**

Threat Visualizer

The Threat Visualizer is Darktrace's graphical and interactive 3D interface, which visualizes activity across the entire digital business and enables users to investigate anomalies in real time. With its cutting-edge user interface, the Threat Visualizer automatically alerts the security team to significant threats in their environment, helping them to proactively investigate and respond.

Autonomous Response

The Enterprise Immune System not only detects threats but can intervene to stop them in their tracks. The solution named Darktrace Antigena acts like the antibody of the immune system, taking swift, surgical action to stop the spread of in-progress cyber-attacks. A game changer for security executives, Darktrace Antigena allows them the critical time that they need to catch up, in the face of an ever faster-paced threat environment, where some automated attacks can hit in just seconds.

Fig.1 Darktrace Threat Visualizer – real-time 3D interface for threat investigation.

What Darktrace Customers Say

" Darktrace's AI is a game-changer – it allows us to remain resilient in the face of a rapidly evolving threat landscape. "

Eben Upton, CEO, Raspberry Pi

" Darktrace's technology is unique in its ability to rapidly detect cyber-threats, irrespective of whether the behaviors are 'known' or 'unknown'. "

Mike Burgess, CISO, Telstra

" Darktrace Antigena has completely changed our approach to cyber security, and allows my team to spend its time and effort where it is really needed. "

Luca Scolaro, IT Security & Technology Manager, Campari

About Darktrace

Darktrace is the world's leading AI company for cyber defense. With thousands of customers worldwide, the AI-powered Enterprise Immune System is trusted to detect and fight back against cyber-attacks in real time. The self-learning AI protects the cloud, SaaS, corporate networks, IoT and industrial systems against cyber-threats and vulnerabilities, from insider threats and ransomware, to stealthy and silent attacks. Darktrace has over 800 employees and 40 offices worldwide. It is headquartered in San Francisco, and Cambridge, UK.

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