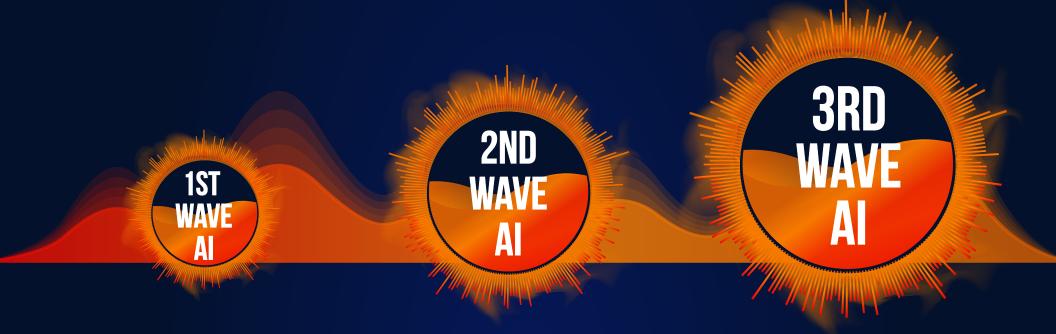
THE THREE WAVES OF ARTIFICIAL INTELLIGENCE

As defined by the Defense Advanced Research Projects Agency (DARPA) of the United States Department of Defense. DARPA is the research and development agency responsible for the development of emerging technologies for use by the military, including Al. www.darpa.mil/about-us/darpa-perspective-on-ai



Enables "reasoning over narrowly defined problems," but with a poor level of certainty.

PERCEIVING LEARNING ABSTRACTING OOOO REASONING



Enables "creating statistical models and training them on big data," albeit with minimal reasoning.

> **PERCEIVING LEARNING** ABSTRACTING **REASONING**



Enables machines to adapt to changing situations.

PERCEIVING LEARNING ABSTRACTING REASONING

THE 3 WAVES **APPLIED TO CYBERSECURITY**

Al-driven solutions are becoming increasingly important in detecting sophisticated threats. But not all AI based cybersecurity solutions are the same. Most solutions are utilizing First and Second Wave artificial intelligence, relying on rules-based approaches that can only detect attacks with known signatures and cannot effectively scale.

1ST WAVE AI QUALIFICATIONS

Expert knowledge or criteria and logical reasoning encoded into a program.

EXAMPLES

// exabeam ←√√ LogRhythm securonix (corelight sumo logic

2ND WAVE AI QUALIFICATIONS

Machine or statistical learning including voice recognition, NLP, and computervision technologies, among others.

EXAMPLES

VECTRA DARKTRACE 📲 ExtraHop

3RD WAVE AI QUALIFICATIONS

Combines the strengths of first and second wave Al and is also capable of contextual sophistication, abstraction and explanation.



MixMode has developed the world's first commercially available intuitive threat detection and response platform built on Third Wave Al. MixMode's patented self-learning Al platform was born out of dynamical systems and identifies patterns and trends without predefined rules or training. Learn more: mixmode.ai/ai/