

RESEARCH BRIEF

Cybersecurity's Next Step: Artificial Intelligence Is Helping Predict, Prevent, And Defeat Attacks

November 2, 2016

[Artificial Intelligence](#) [Cybersecurity](#)



We identified 13 companies working at the growing intersection of AI and cybersecurity.

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Cybersecurity companies are increasingly looking to artificial intelligence tech to improve defense systems and create the next generation of cyber protection.

Two developments are driving this trend:

- First, the **demand** for cybersecurity professionals is rising as the number and severity of attacks rise.
- Second, previously unknown attack types, known as "zero-day attacks" are also on the **rise**.

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network.

We used CB Insights data to understand when artificial intelligence began to be linked to cybersecurity, and we identify 13 companies to watch at the intersection of AI and security.

CYBER DEFENDER STARTUPS RESEARCH BRIEFING

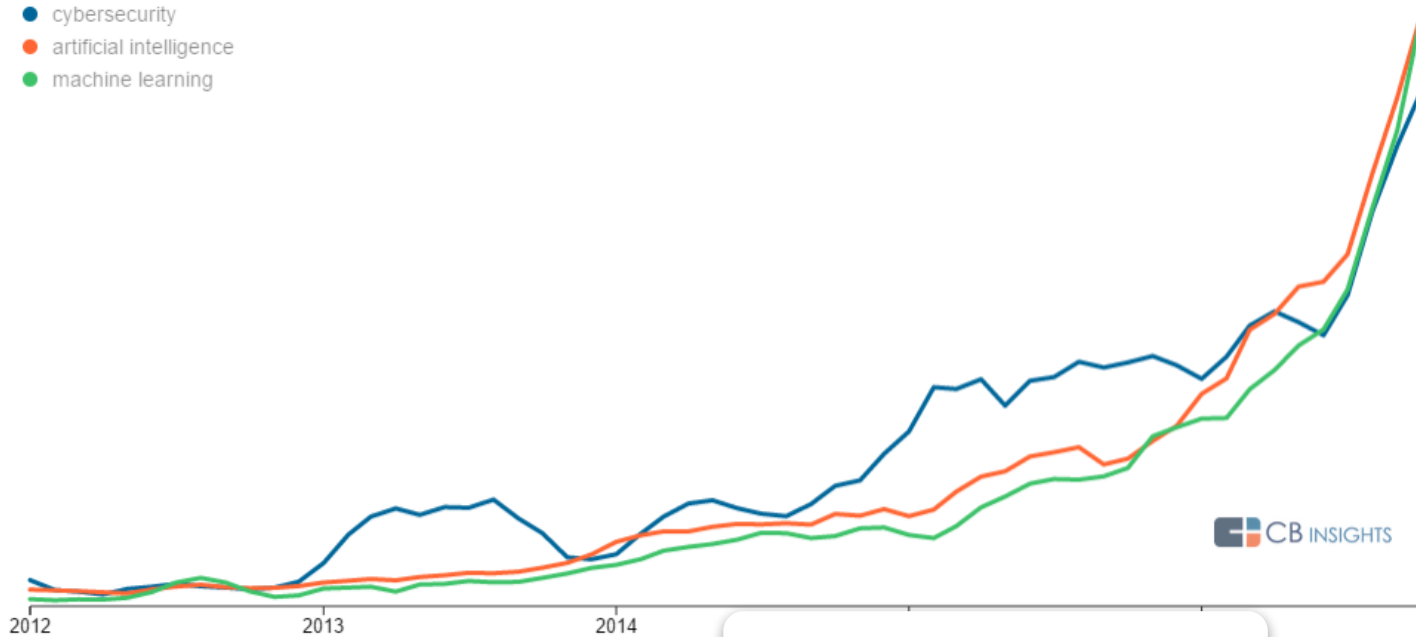
In the face of consistent security breaches the cybersecurity industry remains hotter than ever. This research briefing covers the year's emerging cybersecurity tech trends to watch and high-momentum startups with the potential to shape the future of cyber defense.

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TRENDS ANALYSIS – CYBERSECURITY, AI, AND MACHINE LEARNING HAVE ARRIVED

To inform our analysis in the charts below, we used the **Trends** tool on the CB Insights Platform, which analyzes millions of media articles to track technology trends.

- cybersecurity
- artificial intelligence
- machine learning



In the chart above, it is clear that 2016 is the year that cybersecurity, artificial intelligence, and machine learning became prominent terms. However, these terms are not new. In fact, press mentions of the three technologies were beginning to go up, and at nearly the same rate

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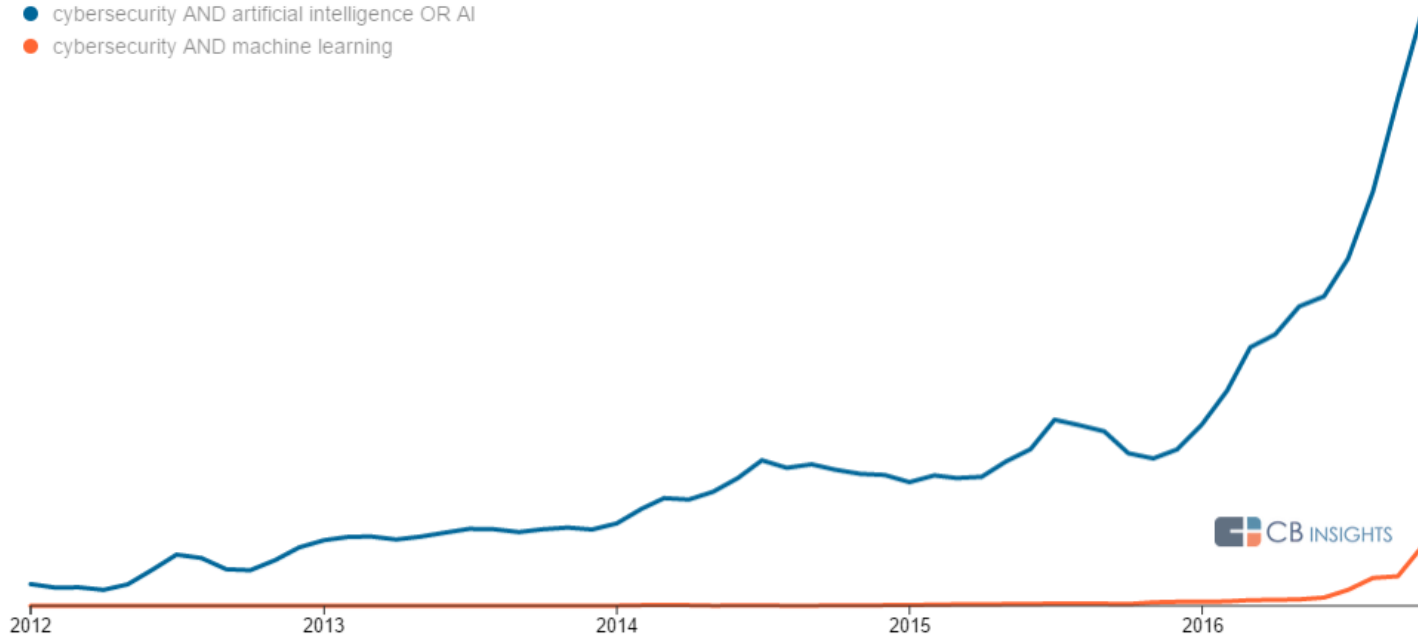
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increasing dramatically late in 2016.

TRENDS ANALYSIS – CYBERSECURITY, AI, AND ML *IN THE SAME CONVERSATION*

- cybersecurity AND artificial intelligence OR AI
- cybersecurity AND machine learning



Looking at the chart above, we can see that this year cybersecurity and AI have increasingly been discussed in the same articles, showing that they have become increasingly linked in media chatter. Co-mentions for cybersecurity and ML are also rising in 2016, though less frequently.

COMPANIES TO WATCH USING AI IN CYBERSECURITY

The following list is populated with cybersecurity companies we identified using the CB Insights database that all leverage some form of ML and/or AI.

This list is organized by the amount of the companies' total disclosed funding as of 10/26/2016.

SORT: COMPANY (A-Z) ▾ COLUMNS: SWIPE ▾



CYBERSECURITY COMPANIES LEVERAGING MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE (AI)

Company	Description

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Tanium

A real-time endpoint management solution that provides instant visibility into networked devices through natural language processing, to allow enterprises to collect data and update machines across networks.

\$295M

Executive Press, Andreessen Horowitz, Nor-Cal Invest

Cylance

Applies AI algorithms to predict, identify and stop malware and mitigate damages from zero-day attacks.

\$177M

Khosla Ventures, Fairhaven Capital, Citi Ventures

LogRhythm

Offers threat intelligence and analytics, for organizations to rapidly detect, respond to and neutralize threats, in addition to compliance automation and assurance, and enhanced IT intelligence.

\$126M

Access Venture Partners, Siemens Venture Capital, Exclusive Ventures

Darktrace

Pairs behavioral analytics with advanced mathematics to automatically detect abnormal behavior in organizations.

\$107M

SoftBank Group, Samsung Ventures, Ten Eleven Ventures

Sift Science

Provides real-time machine learning fraud prevention solutions for online businesses.

\$54M

Union Square Ventures, Spark Capital, SV Angel

Exabeam

Offers user behavior analytics that leverage existing log data to quickly detect advanced attacks, prioritize incidents and guide effective responses.

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E8 Security	Provides intelligence and analytics software alongside a big data platform for long-term data retention and retrospective analysis.	\$22M	Allegis Capital, March Capital Partners, Strategic Cyber Ventures
CyberX	Designed for industrial internet networks to detect abnormal behavior by analyzing the operational behavior of the networks.	\$11M	ff Venture Capital, Flint Capital, GlenRock Israel
Interset	Offers behavioral analytics to protect critical data across the manufacturing, life sciences, high-tech, finance, government, aerospace and defense, and securities brokerage industries.	\$10M	In-Q-Tel, Anthem Venture Partners, Telesystem
PatternEx	A platform to identify malicious user intent by enabling users to predict and prevent cyber attacks in real time, across an enterprise network.	\$8M	Khosla Ventures
SecBI	Offers an advanced threat detection system that uncovers cyber attacks, including all affected users, domains, assets and more.	\$5M	Amichai Shulman, Connecticut Innovations, Jerusalem Venture Partners
Avata Intelligence	Delivers descriptive, diagnostic, predictive, and prescriptive analytics to understand and respond to security threats.		ires

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Jask Labs	Leverages artificial intelligence and advanced analytics to keep corporate data and operations secure.	\$2M	Battery Ventures, Vertical Venture Partners, Undisclosed Investors
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Want more data on cybersecurity startups? [Log in to CB Insights](#) or sign up for free below.

This report was created with data from CB Insights' emerging technology insights platform, which offers clarity into emerging tech and new business strategies through tools like:

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