

Vorbeugen statt heilen – wie neuronale Netze Unternehmen sicherer machen



The conques

Spurensuche

Welche Seuche dezimierte die Urbevölkerung Mexikos?

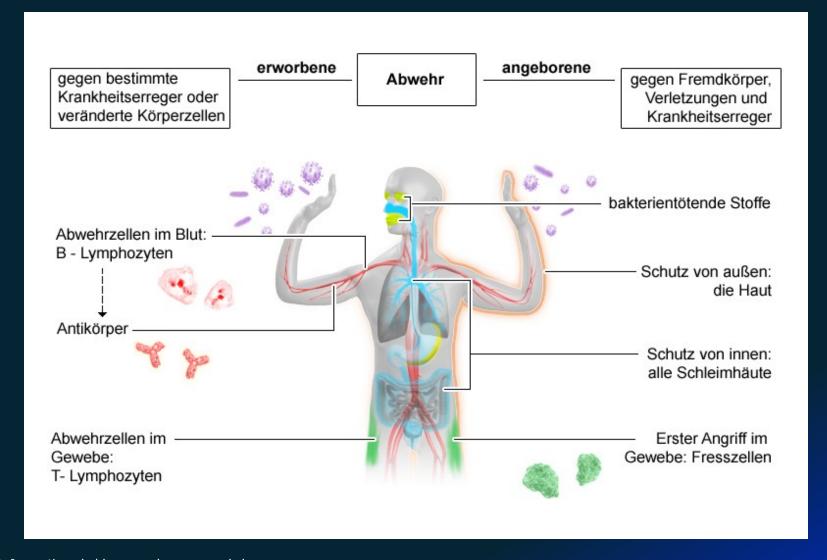
Nach Ankunft der Spanier in Mittelamerika raffte eine mysteriöse Krankheit Millionen Menschen dahin. Jetzt liefern Genanalysen erstmals einen Hinweis auf den möglichen Erreger.

15.01.2018, 17.45 Uhr

Nach Ankunft der Europäer in Amerika starben große Teile der Urbevölkerung durch eingeschleppte Infektionskrankheiten wie Pocken, Masern, Mumps oder Grippe. Mancherorts kamen bis zu 95 Prozent der Menschen an solchen Krankheiten um, die bis dahin auf dem Kontinent unbekannt waren. Manche Historiker gehen davon aus, dass dieser drastische Bevölkerungseinbruch die Eroberung Amerikas begünstigte.



The innate and adaptive immune systems





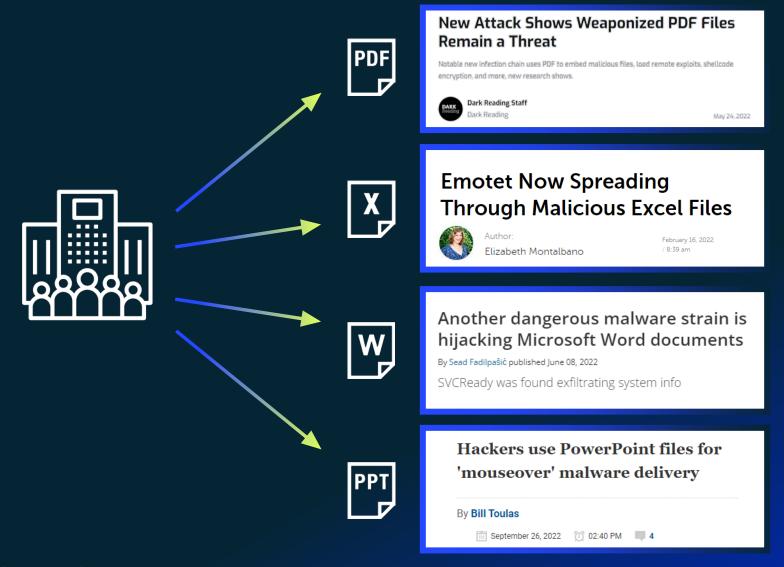
Who wants to conquer us today; unknown AI-generated Threats

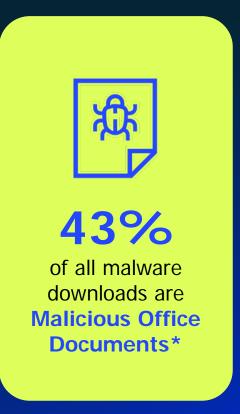






File Uploads and Downloads: Increased Malware Risk







■ Data Breach – Just the Facts

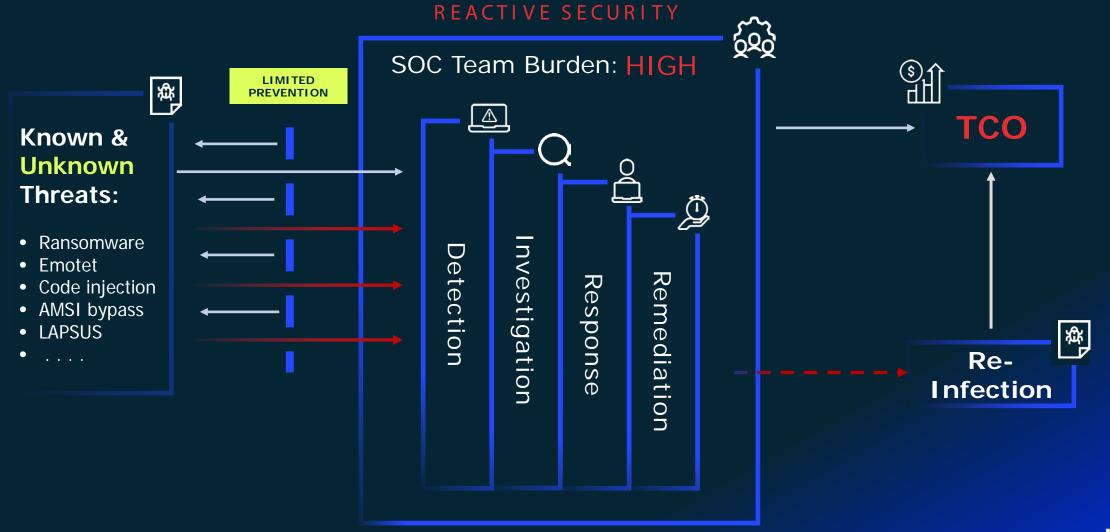






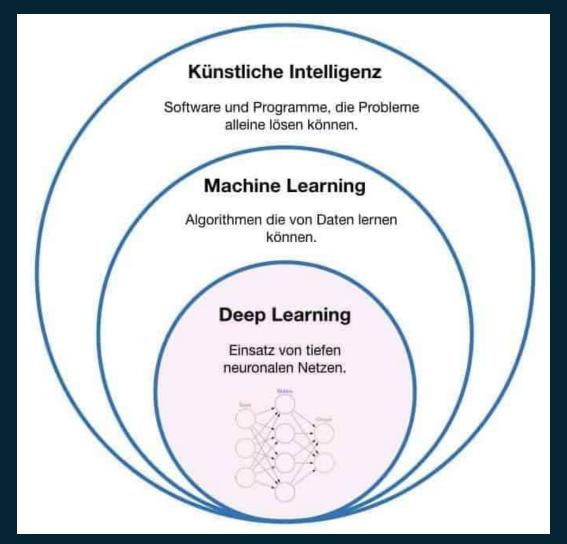


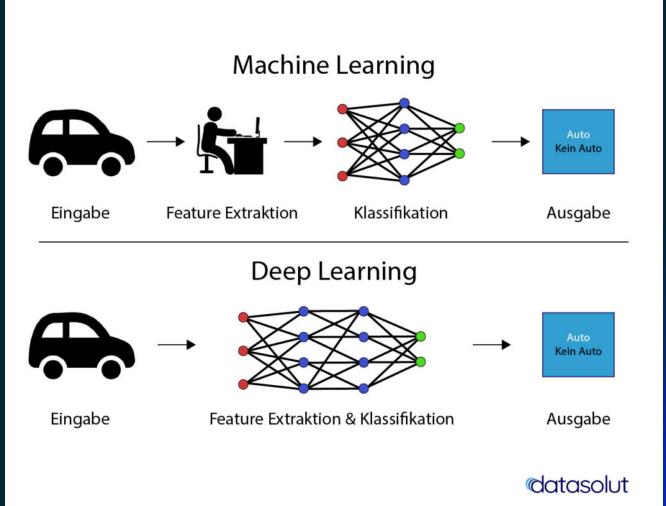
Existing Solutions Assume Breach = Reactive





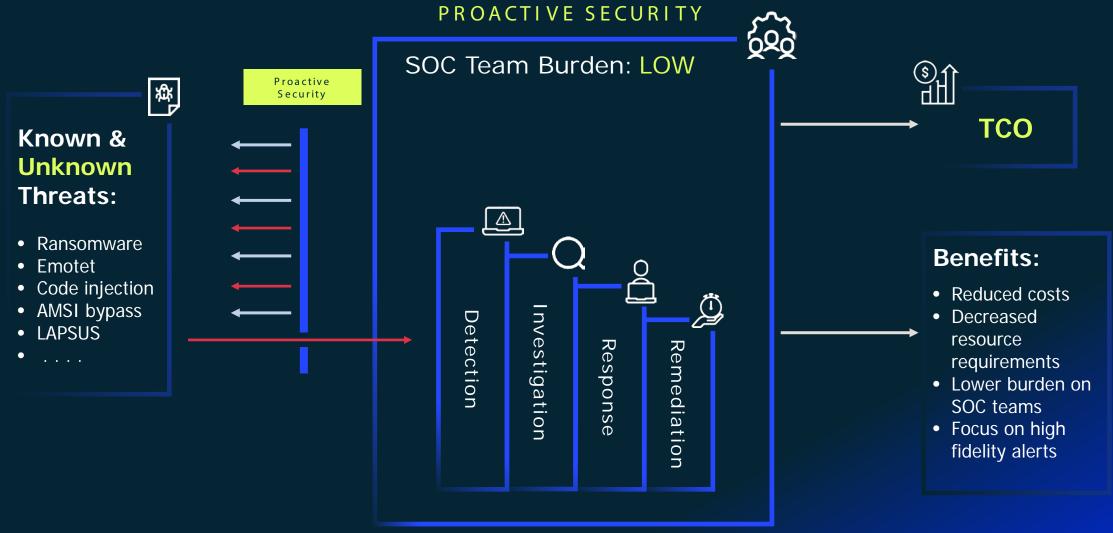
—— How can we apply neural systems







Predictive Prevention = Proactive





Fight AI with AI: The Power of Deep Learning



Accuracy

- Lower false positives
- Higher accuracy of unknown threats
- Automatic threat classification



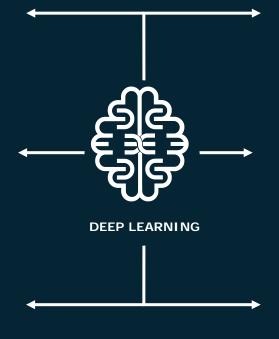
Model Resilience

- Harder to evade or reverse engineer
- Predicts future attacks without constant updates
- Operates offline as effective as online



Data

- Models on malicious, benign and anonymized
- Trains on millions of files





Known Threats

- Does not require threat intelligence feeds
- Not reliant on heuristics and signatures
- Avoids writing to disk first



Unknown Threats

- Moves beyond basic pattern recognition
- Enables prevention of zero days, fileless, code injection, and PowerShell exploits
- Understands the DNA of attack without hash



Autonomous & Intuitive

- Self-learning
- Does not require human insight
- Prevents never-before-seen attacks









Deep Learning Vs. Machine Learning



Machine Learning



Less than 2% of available data



Feature engineering / Domain expert



Limited files types covered (PE)









Deep Learning



100% of available raw data



Autonomous, intuitive & automated



Instantaneous support of new file types

False positives

Accuracy of unknown threats

1 - 2 %

50-70%

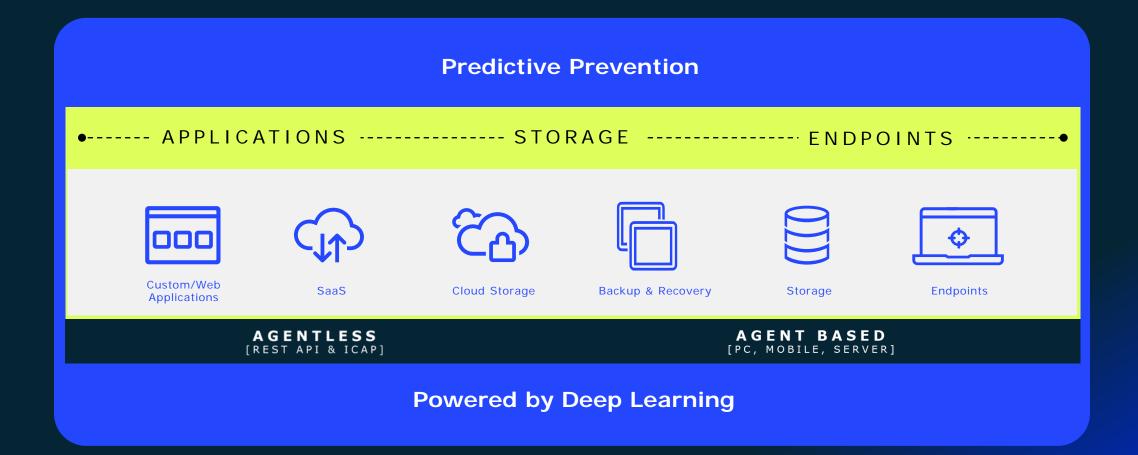
< 0.1%

> 9 9 %

False positives Accuracy of unknown threats



EDE Deep Instinct Predictive Prevention Platform

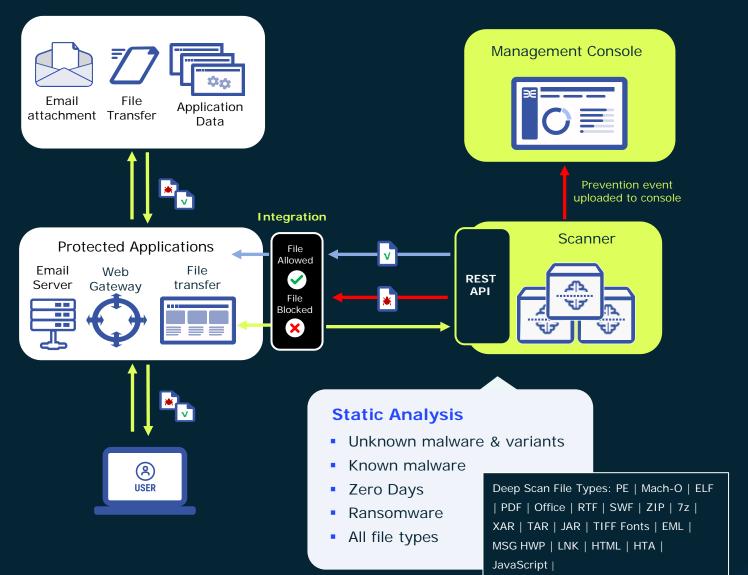




36

Deep Instinct Prevention use Cases

Meet the Attacker Earlier and Ensure Integrity of your applications



- Deploy anywhere as a container cluster
- Easily integrate with REST API
- No impact on app performance or user experience with verdict in < 20ms
- In-Transit File Scanning on the email gateway integration or any other network hub



EDE Deep Instinct Prevention for Storage

Prevent ransomware and other malware from reaching your on-premise, hybrid cloud or public cloud storage and putting your precious data at risk



Easily integrate with your storage infrastructure

- Dell and NetApp native integration
- AWS S3 cloud storage native integration



Achieve Enterprise scale at low cost

- Less than 20ms file scan time
- Minimum infrastructure costs at maximum scale



Best in class prevention

- Over 99% efficacy
- Less than 0.1% false positives





File Prevented

EDE Deep Instinct Prevention for Endpoints & Servers



E





- **Supported Platforms** Windows Server / 10/11 MacOS Linux **Android** iOS
- Prevents malware in less than <20ms
- Lightweight agent, low footprint, non-disruptive
- Offline functionalities no updates required. Prevention as good as "online"
- Supports any scale when autoscaling and load balancing



Deep Instinct & EDR Solutions

Deep Instinct Prevention is taking a different approach than EDR tools





Prevention first Prevention Detection first

Accurately prevents >99% threats Efficacy Low detection rates for unknown & documents

Low FPs rate Accuracy Noisy, creates alert fatigue

Autonomous & Fast Speed Cloud Dependent

Proactive Deep Learning Technology Reactive Machine Learning



Deep Instinct & EDR Solutions

Integrate Deep Instinct Prevention with Microsoft Defender for Endpoints (and other EDRs) to enhance your prevention capabilities and close the security gap

Deep Instinct non disruptive, lightweight agent can run side by side with any EDR solution and prevent attacks



- Prevent unknown and known threats
- Reduce the risk of ransomware and unknown attacks
- Respond to threats faster & improve ROI
- Reduce number of alerts and optimize security operations



Fortune 500 Case Study: Deep Instinct Enhances Windows Defender

600 unknown malicious threats



- 25% missed detection (offline)
- 80% missed office and pdf files (offline)
- 10% missed detection (online)
- 40% missed office and pdf files (online)

- Preventing detections Desiranterions is seemed as a prevention of the p
- 0% missed detection (online or offline)
- <0.1% false positive rate, lower TCO.

*Malicious threats:

40% Ransomware, 40% Portable Executables, 10% PDF, 10% Office June 2023



The Solution - Deep Instinct Prevention

Layer of prevention for greater efficiency, lower risk and lower TCO

EFFICACY



>99% prevention of unknown threats



<0.1% false positive rate



<20ms prevention

PREVENTION



Prevention before malware executes



Protects against adversarial AI attacks



Layered prevention against complex attacks

OPERABILITY



Lowers TCO and Increased ROI of the entire security stack



Increases analyst productivity and efficiency to fight threats



Can augment any EDR solution and integrates with any SIEM/XDR



Powered by Deep Learning



EDE Deep Instinct: A Business Overview



Founded in 2015



Headquartered in NYC and TLV. Offices in London and Tokyo



Deep Learning Framework Protected by 5 Granted Patents





























Strategic and Financial Investors

BlackRock.



















Industry Recognition

Forbes

Ranked by Forbes among the "Top 13 Companies that uses Deep Learning in the World"





Protection

Endpoint Detection



int ion

















Vielen Dank für Ihre Aufmerksamkeit

Sebastian Bach, M.Sc. Regional Sales Manager

Sebastian.Bach@deepinstinct.com +49 163 7875 114

