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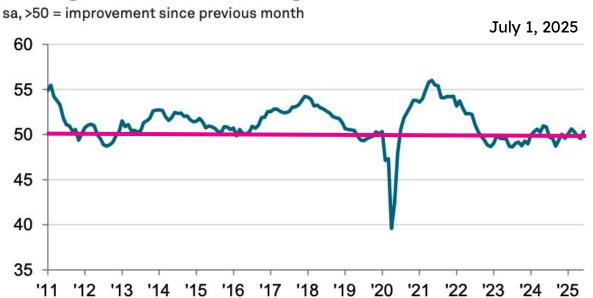
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- Resilience in the Manufacturing Industry:
   Trends & Challenges
- 2. AI in Manufacturing
- 3. How Splunk Adds Value
- 4. Three Case Studies: AI in Manufacturing Bosch Rexroth, Zeppelin, Audi
- 5. Outlook + Collaterals

# Resilience is Key to Recover, Survive and Thrive Amidst Disruptions

#### J.P.Morgan Global Manufacturing PMI



The manufacturing industry has a long history of resilience.

Source: J.P.Morgan, S&P Global PMI.

# Resilience is Key to Recover, Survive and Thrive Amidst Disruptions

# Scenarios for competitiveness in 2030: industry exposure



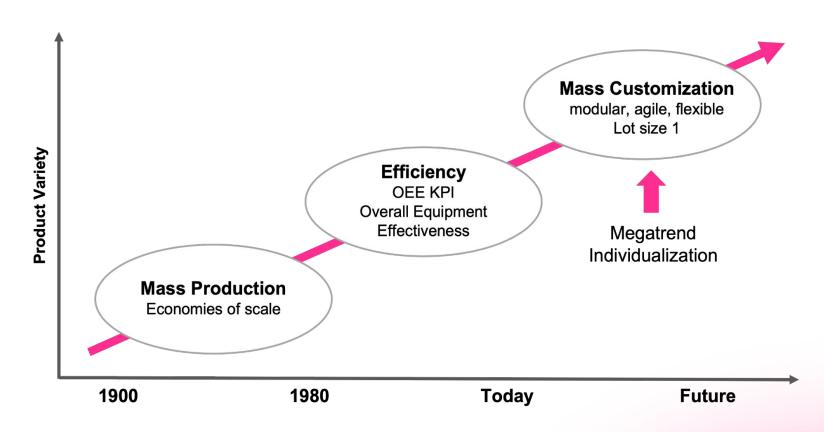


Resilience
is key for future
competitiveness
- in any
scenario.

Source: World Economic Forum, Global Economic Futures: Competitiveness in 2030

## Resilience is Key for Next-Gen Operations

From mass production to mass customization





# AI is transforming organizations at an unprecedented rate

The global market size of Al in manufacturing is estimated to grow seven fold between 2023 to 2028, reaching USD 21 billion by 2028. Source: Markets and Markets

## **AI** in Manufacturing **A Journey**

Simulation Classification

**Optimization** 

- Digital Twins
- AR / VR
- **Quality Control**

**Predictive Analytics** 

- Predictive Maintenance
- **Predictive Quality**

Agentic ΑI

Gen ΑI

- Industrial Copilots
- **Chat Bots**
- Al Assistants

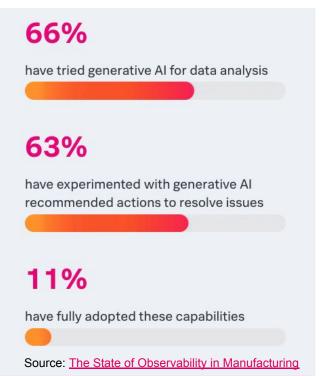
- Response to Cyberattacks
- Automated Optimizations
- Agentic Al-driven Operations

**Physical** ΑI

- Al-driven Robotics for Production
- Warehouse Robots
- Self Driving Cars

## Driving Change with AI in Manufacturing

96% of manufacturers are exploring GenAl in observability



Strengthening digital resilience with Al

55%

Use AI and ML for anomaly detection

**52+%** 

Cite the following top security use cases for GenAl

- Malware analysis
- Threat detection
- Alert enrichment

Source: The Hidden Costs of Downtime

#### Al in German Manufacturing

42%

are using AI in the production

19%

are using AI in robotics, with 46% being in the planning/discussion stage

**Energy Management** is the top emerging AI use case

64%

are planning/discussing the implementation

Source: bitkom



## The path to greater digital resilience

Foundational
Visibility
See across
environments

Search, monitor and

security monitoring

investigate for real-time

Observability

Security

SecOps

Observability
ITOps, Engineering

Troubleshoot mission- critical apps and infrastructure

#### Guided Insights

Detect threats and issues with context

Reduce noise, detect more threats and identify risk with AI/ML powered detections

Prioritize issues based on business impact

# Proactive Response

Get ahead of issues

Accelerate incident investigations and response using automation

Ensure reliability of critical apps and prevent outages

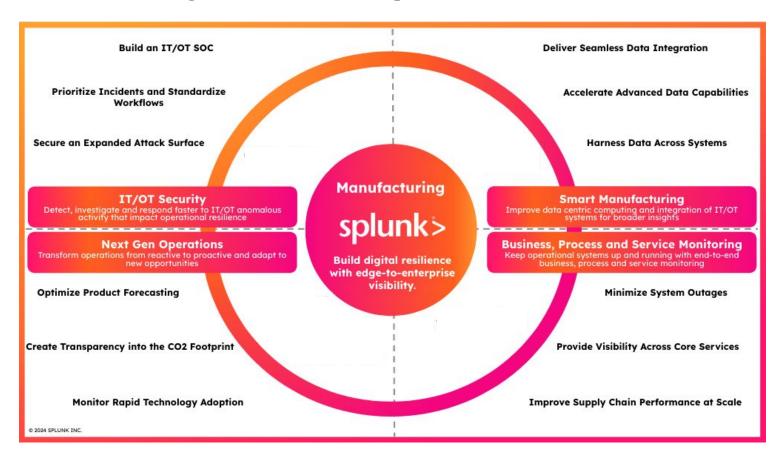
# Unified Workflows

Collaborate seamlessly

Maximize SOC efficiency with integrated threat detection, investigation and response

Standardize observability practices across teams

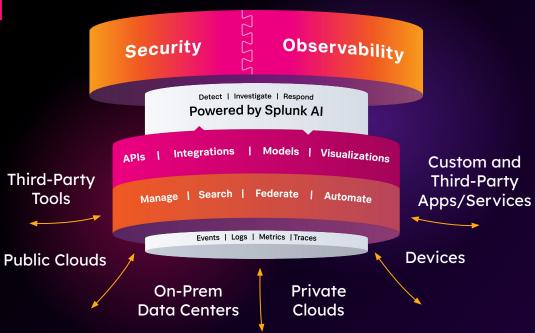
## Focusing on Four Key Business Outcomes



# Splunk Al

**Video** 

# Built on a unified data platform



# With a foundation of **AI services + data**

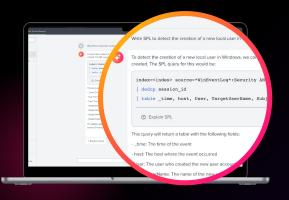
- Generative AI Assistants to simplify and make your job easier.
- Prebuilt AI analytics and task automation enabled by agentic AI.
- Powered by leading AI technologies to deliver accuracy and efficiency.
- Integral part of the Splunk portfolio and Data Platform.



# **Splunk AI** Assistants everywhere

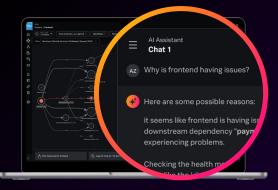
Increase productivity and deliver faster detection and response

# Al Assistant for SPL



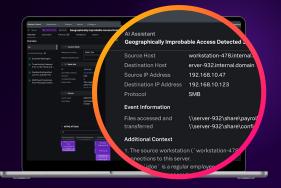
**Generally Available** 

# Al Assistant in Observability Cloud



**Generally Available** 

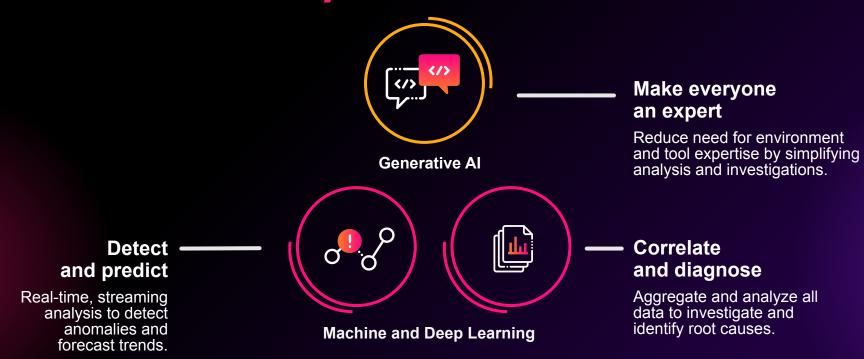
#### Al Assistant in Enterprise Security



Preview

# Including a broad portfolio of ML and AI analytics





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△ Main Page / Apps / Splunk Machine Learning Toolkit



#### **Splunk Machine Learning Toolkit**

The Splunk Machine Learning Toolkit delivers new SPL commands, custom visualizations, assistants, and examples to explore a variety of ML concepts. Each assistant includes end-to-end examples with datasets, plus the ability to apply the visualizations and SPL commands to your own...

Built by Splunk LLC



Login to Download













Latest Version 5.6.0

May 13, 2025 Release notes Compatibility

Splunk Enterprise, Splunk
Cloud
Platform Version: 10.0, 9.4,
9.3, 9.2, 9.1

Rating

5 ★ ★ ★ ★ ★ (39)

Log in to rate this app

Support

Splunk Supported App

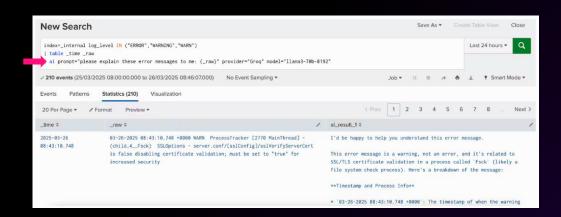
Learn more

Ranking
#1 In Artificial Intelligence
#2 In Business Analytics

# Building on AI Capabilities in Splunk with External LLM Integration

Enabled by the Splunk Machine Learning Toolkit (MLTK) 5.6

#### Commanding AI with the ai command



Disclaimer: Any data that is sent to an external LLM is done so at your own risk!

Source: Faster Insights with Third-Party LLM Services in Splunk Search

Allows customers to connect to external LLMs directly into the Splunk search experience

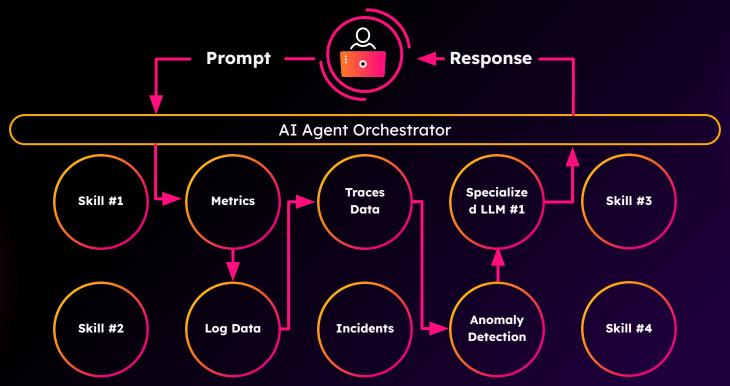
- OpenAI
- Anthropic
- Google Gemini etc.

Customers can now apply the power of these LLMs to Splunk data. Examples:

- Explain the error log that you need to investigate.
- Prioritize the list of alerts you received.
- Rank the number of login attempts by user.

## And agentic AI to automate tasks





## **Splunk AI** accelerates digital resilience

Accelerating every step of detection, investigation and response



Boost productivity and accelerate outcomes with embedded AI



Extend results by customizing AI with your data



Secure and monitor fast changing AI environments





#### **Customer Case**

#### **Bosch Rexroth AG**

#### **Energy Management for Factories**

#### **Key Challenges**

- Skyrocketing energy costs
- Increased regulation
- Lack of unified, granular and real-time visibility across IT and OT environments

#### Solution

- Leveraged the Splunk Machine Learning
   + Sustainability Toolkit
- Focused on energy-intensive machines
- Enabled optimization at scale with three key levers: Pricing (peak management), availability (standby), timing (operations scheduling)

#### **Business Impact / Savings**

• Costs (EUR) <b>20-30</b>	%
----------------------------	---

Energy (kWh)
 10-15 %

• GHG\* emissions (CO2e kg) 25-30 %



Bosch Rexroth AG Gains IT and OT Observability and Reduces Energy Costs by 20-30%

\* GHG: Greenhouse Gas

## Optimizing Peak Management with ML





#### **Customer Case**

#### **Zeppelin**

#### **Connecting to LLMs**

#### **Key Challenges**

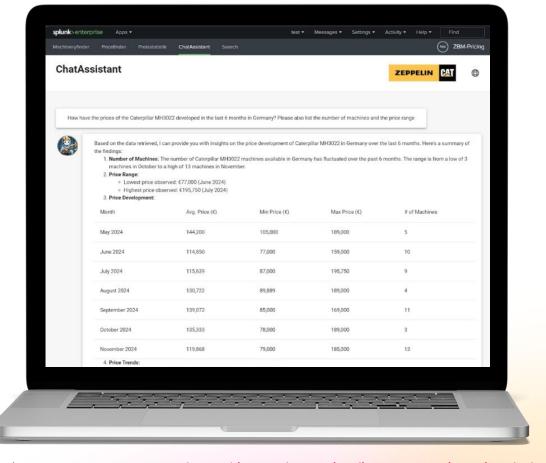
Intransparent pricing information about used machinery

#### Solution

- Connected Splunk data with LLMs to interact with them, e.g. Anthropic Claude
- Created an AI assistant that would allow employees to query ANY pricing information about used machinery
- Example of user prompt: "How have Caterpillar MH3022 prices in Germany changed in the last 6 months?"

#### **Business Impact**

- Market intelligence at your fingertips
- Making informed decisions
- Huge productivity boost



Blog: From Zero to LLM-Hero: Plan, Architect and Operationalize your AI Assistant in Splunk

#### **Customer Case**

#### **Audi AG**

# Virtually Controlled Production with an AI-Ready Network

#### **Key Challenges**

- Shifting paradigm: Refocus from hardware to applications
- New network required for highly critical communication
- Broader strategy to bring IT into OT

#### Solution

- Virtual PLCs\* replace hardware-based control on the EC4P\*\* platform
- Secure, AI-ready network by Cisco
- Applications are communicating with robots through the network in real time

#### **Business Impact**

- Important productivity leap in Audi's 360 factory strategy for efficient and data-driven manufacturing
- Gained energy efficiency and reduced the carbon footprint



Virtually controlled production a first in Audi body shop

Audi sets the pace for a next-level smart factory



The factory of the future has only two living beings: a dog and a worker?

The job of the worker is to feed the dog and the job of the dog is to keep any humans away from machines?



## **Building the NextGen Factory**

Leveraging OT + IT + AI



#### Bosch Rexroth: Intelligent Factory Floor

Roof, walls and floor are fixed, everything else can be adapted to new orders, production methods or business models.

modular, mobile and flexible production

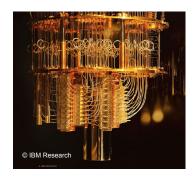
#### Splunk: Data Analytics Platform Powered by Al / ML

#### Possible Business Outcomes

- Optimized production performance, availability, security + safety
- · Lot size one vs. economies of scale
- Energy management: Energy costs, efficiency, carbon footprint

# Quantum Computing is the New Kid on the Block Hand in Hand with AI





#### Possible Use Cases

- Optimization
  - Complex logistics / supply chain
  - Scheduling (also workloads in data centers)
- Accelerating new materials development
- Simulations









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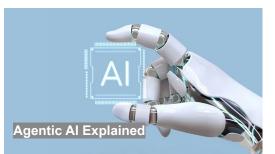
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