

# AI at Internet Scale: The Fastest-Growing Attack Surface

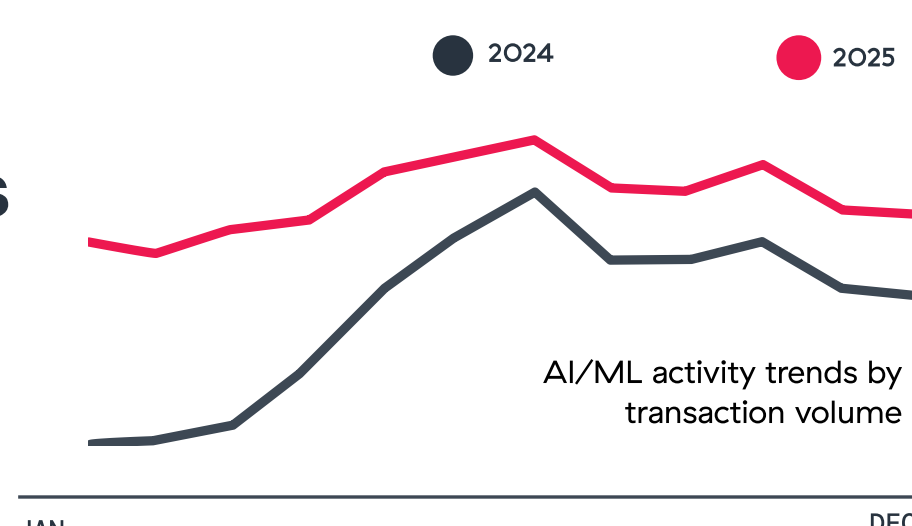


Findings from the ThreatLabz 2026 AI Security Report

## THE EXPLOSION

Nearly **1 trillion** AI/ML transactions analyzed

Enterprises are relying on AI to move faster, automate decisions, and increase productivity.



Analysis period: January–December 2025

AI is no longer emerging. **It's dominant.**

# 83%

Increase in Transactions

## THE SHIFT

**AI is embedded** across enterprise workflows

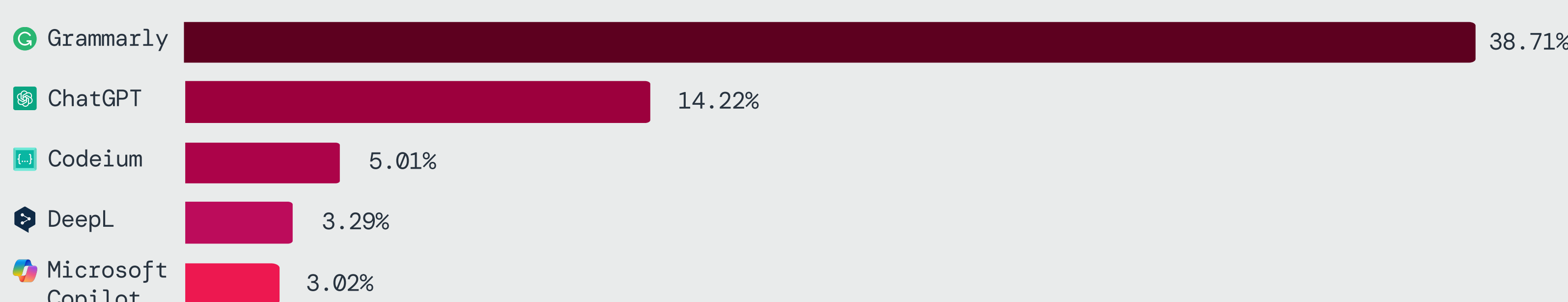
AI has become always-on infrastructure, expanding opportunity and the attack surface at once.

FROM **875** TO **3,500 APPS**

Driving AI/ML Transactions

AI adoption is accelerating faster than security controls can adapt. **Shadow AI** is a major factor behind this shift.

## Top 5 applications by traffic share



## THE IMPACT

Industries are **operationalizing AI at scale**

As organizations reap the benefits of AI, reliance increases exposure—and no sector is immune.

## Top AI-active industries



AI adoption is not isolated to tech. It's systemic across the **global economy.**

## THE RISK

AI is a new enterprise **risk layer**

AI platforms process large volumes of sensitive data, making them prime channels for data exfiltration.

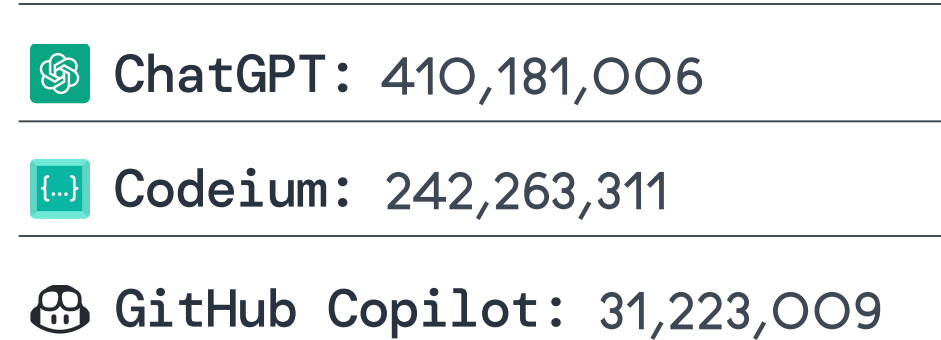
# 18,033 TB

of data sent to AI apps  
Equivalent to roughly 3.6 billion digital photos

# 93%

increase year-over-year

## AI/ML apps with the most DLP policy violations



Without effective DLP controls, the risk of exposure is immediate and real.

**Sensitive data is increasingly at stake:**

As AI proliferates, enterprise data moves across more applications, often with limited visibility and inconsistent guardrails.

## Systemic vulnerabilities amplify the risk

Inherent weaknesses in AI systems create even more opportunities for exploitation.

# 25+

enterprise environments tested by Zscaler red teaming experts

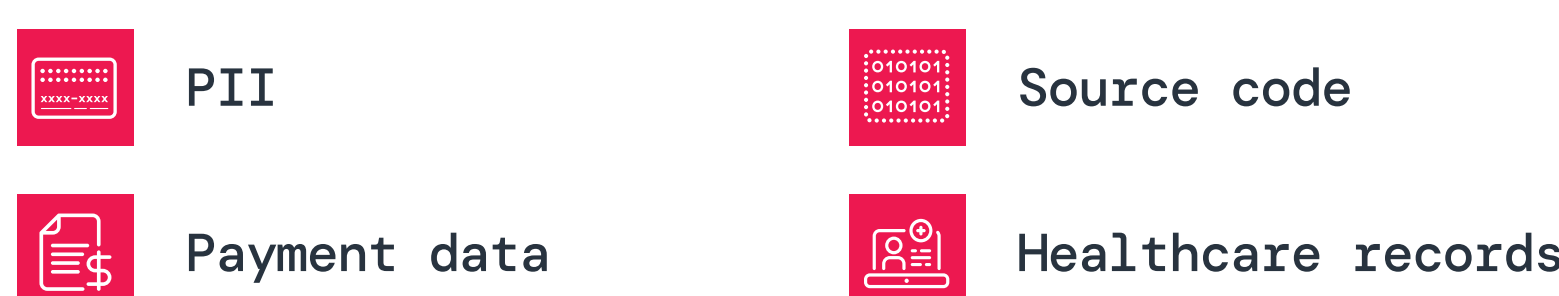
# 220K+

adversarial attack attempts

# 100%

of AI systems had critical vulnerabilities

## Common sensitive data detected



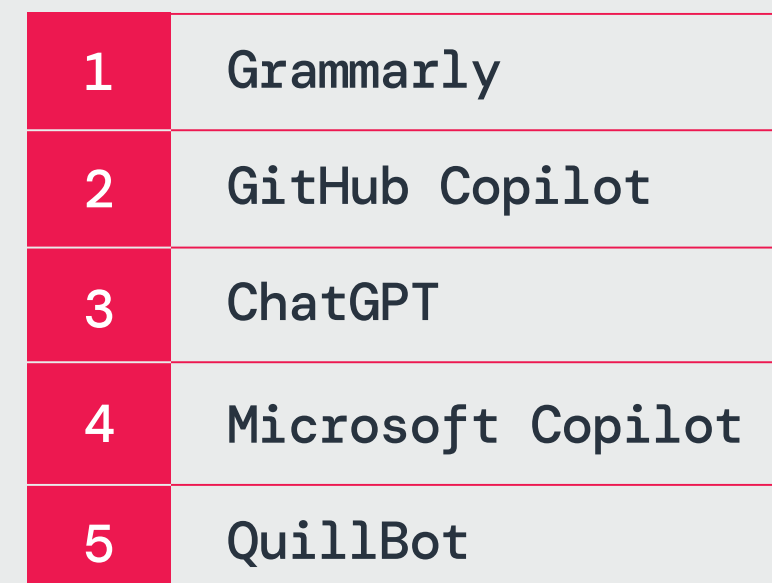
## THE RESPONSE

Enterprises are **actively restricting AI use**

Organizations are blocking AI traffic to contain risk, but restriction alone is not a security strategy.

**39%** of AI transactions were blocked

## Top blocked applications



High blocking rates reflect concerns around **data exposure and privacy.**

## WHAT MUST CHANGE

AI is reshaping the enterprise. **Security must evolve with it**

Securing AI demands comprehensive visibility, runtime protections, and a foundation of zero trust.

## 2026 enterprise AI security requirements

- Discover and map your full AI footprint and risks
- Align AI usage to governance and regulatory controls
- Apply least-privilege access to AI systems
- Enforce AI guardrails with inline inspection
- Validate model integrity and supply chain dependencies
- Continuously test AI systems under adversarial conditions

Read the **ThreatLabz 2026 AI Security Report**

Explore the [full research and analysis](#), including where AI adoption is accelerating, how AI-enabled threats are evolving, and what it takes to securely embrace AI in the enterprise.



DOWNLOAD THE REPORT