

The Al Paradox

Enhancing Security or Empowering Hackers

Gilbert Joseph Systems Engineer - Palo Alto Networks

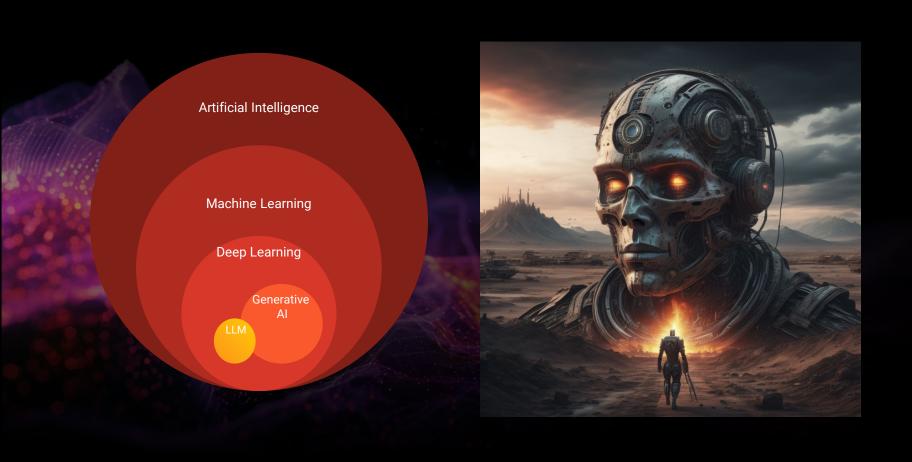




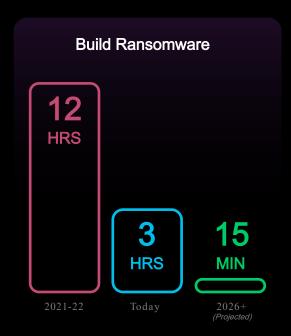


Given the pace of innovation in cybersecurity, threat actors are adopting Al unlike anything we have seen before.





Al Is Turbocharging the Speed and Scale of Attacks



\$2B impact from attack on a US health insurer in 2024



15 million users' PII and confidential data exfiltrated in Jan 2024



500+ organizations and 35+ million people affected by MoveIT vulnerability









Human Resources Virtual HelpDesk



Fraud Detection Applications



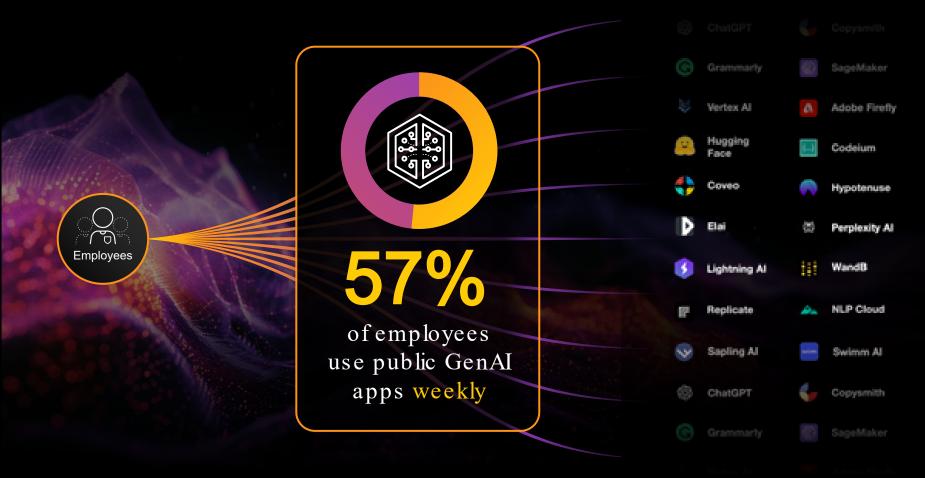
Shopping Assistants



Intelligent Energy Management Systems

Al-Powered Business Applications





Al-powered applications introduce new security risks

Supply Chain

Build with AI components & code

App Stack

Leverage Al services, infrastructure & data

Runtime

Real-time app-to-model interactions

Corrupt AI/MI packages & libraries

Insecure prompt templates

Model vulnerabilities

Obscure data lineage; hard to trace issues



Prompt templates

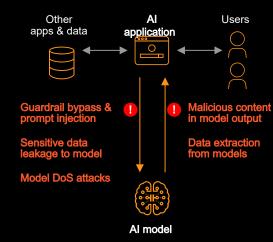


Source data

Inability to correlate & prioritize risks across AI services, models, & data



Limited visibility
& context into





Risk from misconfigure data stores & infra (e.g



Steps to Secure Al by Design

Track and monitor Al usage for every employee

Secure every step of Al app development lifecycle and supply chain

Protect Al data from unauthorized access and leakage at all times

Delivered as an extension of existing cybersecurity solutions



PREPARING BRANDS FGH