

U.S. Agentic AI Security Market Size, Share & Trends Analysis Report By Component (Solutions, Services), By Deployment (Cloud, Hybrid, On-Premises), By Organization Size, By End-use (BFSI, Healthcare, IT & Telecom, Retail), By Region, And Segment Forecasts, 2026 - 2033

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Abstracts

The U.S. agentic AI security market size was valued at USD 456.2 million in 2025 and is projected to grow from USD 603.4 million in 2026 to USD 5,836.9 million by 2033, at a CAGR of 38.3% from 2026 to 2033, driven by the rapid adoption of autonomous AI agents across industries such as BFSI, healthcare, IT & telecommunications, government, retail, and manufacturing.

As enterprises increasingly deploy AI agents capable of independently accessing enterprise systems, interacting with applications, and executing complex tasks, the demand for specialized security solutions has grown significantly.

Organizations are investing in agent identity and access management, runtime security, AI governance, data protection, and continuous monitoring to mitigate risks associated with unauthorized agent actions, prompt injection attacks, model manipulation, and sensitive data exposure. The strong presence of leading AI developers, hyperscale cloud providers, and global cybersecurity vendors further strengthens the country's leadership in the market.

The market is also being driven by increasing enterprise investments in responsible AI adoption and the need to comply with evolving AI governance and cybersecurity frameworks. Organizations are moving beyond securing AI models alone and are

focusing on protecting the entire lifecycle of autonomous AI agents through policy enforcement, behavioral analytics, automated threat detection, and audit capabilities. Strategic product launches by major cybersecurity vendors, growing adoption of Zero Trust architectures, and the integration of AI security into enterprise cybersecurity platforms are further accelerating market expansion. In addition, increasing collaborations between AI platform providers and cybersecurity companies are fostering the development of comprehensive agentic AI security ecosystems.

Therefore, the U.S. is expected to remain the largest market for agentic AI security owing to its advanced AI ecosystem, early adoption of enterprise AI technologies, and continued investments in AI innovation. As organizations transition from AI copilots to fully autonomous multi-agent environments, the need for scalable, AI-native security platforms will continue to increase. Vendors offering integrated capabilities spanning agent governance, runtime protection, identity security, compliance management, and AI threat intelligence are expected to gain a competitive advantage, positioning the U.S. as a key hub for innovation and commercialization in the U.S. agentic AI security industry.

U.S. Agentic AI Security Market Report Segmentation

This report forecasts revenue growth at the country levels and provides an analysis of the latest trends across sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the U.S. agentic AI security market report based on component, deployment, organization size, and end-use:

Component Outlook (Revenue, USD Million, 2021 - 2033)

Solutions

Agent Identity & Access Security

Agent Runtime Security

Agent Governance & Compliance

Agent Data Security

Agent Threat Detection & Response

Agent Testing & Validation

Services

Deployment Outlook (Revenue, USD Million, 2021 - 2033)

On-Premises

Cloud

Hybrid

Organization Size Outlook (Revenue, USD Million, 2021 - 2033)

Large Enterprises

Small & Medium-Sized Enterprises (SMEs)

End-use Outlook (Revenue, USD Million, 2021 - 2033)

BFSI

Healthcare

IT & Telecom

Government & Defense

Retail

Manufacturing

Others

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