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Cloud AI - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2026 - 2031)

Market Report | 2026-02-09 | 120 pages | Mordor Intelligence

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Report description:

Cloud AI Market Analysis

The Cloud AI market was valued at USD 89.43 billion in 2025 and estimated to grow from USD 117.26 billion in 2026 to reach USD 454.02 billion by 2031, at a CAGR of 31.10% during the forecast period (2026-2031). Generative AI partnerships, such as Microsoft's USD 13 billion commitment to OpenAI and Amazon's USD 8 billion investment in Anthropic, are expanding capacity, lowering entry barriers, and accelerating time-to-value for enterprises. Mid-market adoption is rising as GPU-fractionalization technologies reduce infrastructure costs, while sector-specific regulations in healthcare and financial services favor providers that can demonstrate robust governance. Supply-chain dynamics, notably in high-bandwidth memory, spur chip diversification strategies among hyperscalers, and carbon-aware workload orchestration begins to influence data-center siting decisions.

Global Cloud AI Market Trends and Insights

Growing Adoption of AI-as-a-Service (AIaaS)

Enterprises are shifting from capital-heavy on-premises deployments to pay-as-you-go AI services. Microsoft's AI business reached a USD 13 billion annual run rate in Q2 FY 2025, contributing 16 percentage points to Azure growth. Custom silicon such as AWS Trainium2 delivers 30-40% price-performance gains, broadening AI accessibility for mid-market firms that must meet regional data-sovereignty rules. Uptake is evident across Europe and Asia, where 60% of mid-size enterprises expect regionally trained language models by 2025.

Rising Big-Data Volume

Unstructured data exceeds 80% of enterprise information assets, driving demand for real-time AI analytics. Healthcare use cases include Mayo Clinic processing genomic records from 100,000 patients to improve early disease detection. Financial services apply cloud AI to reduce false positives in anti-money-laundering screening by 95%. Edge-cloud convergence allows manufacturers to perform predictive maintenance on IoT data streams with millisecond response times.

Persistent GPU/HBM Supply-Chain Shortages

SK Hynix controls 70% of the HBM market and reports full allocation through 2025, creating cost pressures for cloud providers. AWS counters with Trainium custom chips, while Oracle procures thousands of NVIDIA Blackwell GPUs to sustain training capacity. Tight memory supply has triggered price spikes in DDR5 and VRAM, with Samsung inking a USD 3 billion HBM3E supply deal with AMD.

Other drivers and restraints analyzed in the detailed report include:

Increasing Demand for Virtual Assistants and GenAI ChatbotsGenAI GPU-Fractionalization Expanding SME AccessLack of Skilled Workforce and Data-Security Concerns

For complete list of drivers and restraints, kindly check the Table Of Contents.

Segment Analysis

Solutions represented 62.40% of the Cloud AI market in 2025. Enterprises gravitated to packaged platforms that integrate with existing DevOps pipelines, ensuring quick deployment and consistent performance. As adoption deepens, professional guidance becomes essential for migration roadmaps and governance, pushing the Services segment to a forecast 33.42% CAGR.

Services growth reflects multi-year transformation programs that include strategy, model tuning, and managed operations. Firms such as Accenture have retrained 1,400 engineers for Anthropic-on-AWS implementations, directly addressing enterprise skills gaps. Combined solution-service offerings are growing in popularity, enabling organizations to onboard AI quickly while building internal competencies.

BFSI held 28.55% Cloud AI market share in 2025 due to fraud analytics and robo-advisory use cases. However, Healthcare is set to grow at 34.98% CAGR, buoyed by AI-enabled diagnostics and ambient clinical documentation.

Hospitals deploy large language models for radiology triage and personalized treatment recommendations. The FDA's January 2025 guidance provides a clear regulatory path, encouraging capital investment. Manufacturing and retail follow, leveraging AI for defect detection and inventory optimization, respectively.

The Cloud AI Market Report is Segmented by Type (Solution and Service), End-User Vertical (BFSI, Healthcare, Automotive and Mobility, and More), Deployment Model (Public Cloud, Private Cloud, and More), Application (Fraud and Risk Analytics, Marketing and Personalisation, and More), Technology (Machine Learning, Generative AI, and More), and Geography.

Geography Analysis

North America retained 40.60% Cloud AI market share in 2025, anchored by hyperscaler footprints and venture funding.

Regulatory clarity, exemplified by the FDA's AI device guidelines, encourages adoption across life-sciences and finance. Capital outlays include Amazon's USD 8 billion Anthropic investment and Microsoft's continued OpenAI integration, reinforcing regional dominance.

Asia Pacific is the fastest-growing territory with 31.88% CAGR. China's projected USD 46 billion cloud spend for 2025, along with Alibaba's multi-year capex commitment, fuels infrastructure expansion. Japan accelerates with Oracle's USD 8 billion pledge and Tokyo's selection for OpenAI's first Indo-Pacific branch. India and Southeast Asia benefit from digital public-infrastructure programs and rising developer communities.

Europe shows steady growth amid complex regulation. The EU AI Act provides a harmonized framework that advantages providers with certified governance. Sovereign cloud initiatives and carbon-reduction mandates encourage hybrid architectures. Emerging markets in the Middle East and Africa witness early uptake, backed by sovereign-wealth investments in data centers.

List of Companies Covered in this Report:

Amazon Web Services Microsoft Corp. Google LLC IBM Corp. Salesforce Inc. NVIDIA Corp. Oracle Corp. Alibaba Cloud SAP SE ServiceNow Databricks Snowflake Inc. Hugging Face OpenAI LP Anthropic PBC CoreWeave AMD Inc. Intel Corp. Wipro Ltd. Infosys Ltd. SoundHound AI Inc. Twilio Inc.

Additional Benefits:

The market estimate (ME) sheet in Excel format
3 months of analyst support

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