

# **Agentic AI Market Forecasts to 2034 – Global Analysis By Deployment (Cloud-Native Agentic Platforms, Edge-Deployed Agents and Hybrid Orchestration Models), Functionality, End User and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global Agentic AI Market is accounted for \$10.3 billion in 2026 and is expected to reach \$207.6 billion by 2034 growing at a CAGR of 45.6% during the forecast period. Agentic AI encompasses AI systems capable of independent operation, decision-making, and goal-oriented behavior with little human guidance. These systems sense their surroundings, formulate plans, and carry out tasks to fulfill objectives, adjusting dynamically to evolving situations. Their applications span robotics, self-driving cars, and intelligent industrial processes, boosting efficiency and minimizing human involvement. Despite their advantages in productivity and technological advancement, agentic AI presents ethical and safety challenges, requiring comprehensive oversight, regulation, and careful implementation to ensure responsible and secure use.

According to Stanford HAI AI Index 2024, Generative AI investment reached \$25.2 billion in 2023, nearly eight times higher than in 2022, reflecting rapid adoption and corporate focus.

Market Dynamics:

Driver:

Increasing demand for automation

Growing automation requirements are significantly boosting the agentic AI market.

Organizations increasingly rely on autonomous AI systems to perform intricate tasks, optimize workflows, and reduce human intervention. By enabling real-time decision-making and operational management, agentic AI improves efficiency, accuracy, and output. Industries including manufacturing, logistics, and services are adopting these technologies to streamline processes, lower costs, and remain competitive. The pressure for rapid results, enhanced productivity, and error reduction drives ongoing investments in advanced AI agents capable of operating independently and supporting organizational growth.

Restraint:

### Ethical and regulatory challenges

Ethical considerations and regulatory limitations hinder the growth of the agentic AI market. Independent AI systems pose challenges regarding responsibility, fairness, and transparency in decisions. Evolving regulations and varying regional policies create obstacles for compliance. Businesses risk scrutiny over AI actions that may impact privacy or cause unintended harm. Dilemmas related to autonomous decision-making in sensitive contexts further restrict adoption. Firms must develop governance frameworks, monitoring mechanisms, and compliance measures, increasing costs and delaying deployment.

Opportunity:

### Expansion in smart cities and infrastructure

The smart city sector provides promising opportunities for agentic AI adoption. Autonomous AI agents can manage urban systems, including traffic control, energy grids, waste disposal, and public safety. Real-time data processing and adaptive decision-making enhance efficiency, reduce energy and resource consumption, and improve residents' quality of life. Investments from governments and private enterprises in intelligent infrastructure drive demand for AI-enabled solutions. Deploying agentic AI allows cities to operate more effectively, sustainably, and safely. This trend creates significant market potential, enabling AI developers to contribute to smarter urban planning, sustainable operations, and improved public services across global metropolitan areas.

Threat:

## Public perception and trust issues

Concerns about trust and public perception threaten the agentic AI market. Autonomous AI agents make independent decisions, prompting worries about accountability, ethical conduct, and reliability. Mistakes or accidents caused by AI can erode public confidence, slowing adoption. Fears of job displacement may also create resistance from workers and consumers. Businesses must prioritize transparency, explainability, and communication to build trust. Neglecting these social and ethical concerns can limit adoption, reduce market growth, and damage the reputation of organizations implementing agentic AI technologies, highlighting the importance of responsible deployment practices.

## Covid-19 Impact:

The COVID-19 crisis influenced the agentic AI market by increasing the need for autonomous and remote operations. Lockdowns and social distancing measures prompted industries to implement AI-driven solutions to sustain productivity and ensure uninterrupted workflows. Sectors like healthcare, logistics, and manufacturing adopted agentic AI for tasks such as predictive analytics, remote supervision, and independent decision-making. Despite temporary slowdowns caused by supply chain issues and deployment delays, the pandemic underscored the importance of autonomous AI in handling emergencies.

The cloud-native agentic platforms segment is expected to be the largest during the forecast period

The cloud-native agentic platforms segment is expected to account for the largest market share during the forecast period due to their flexibility, scalability, and simplified deployment. By leveraging centralized cloud infrastructure, organizations can manage autonomous AI agents efficiently, perform real-time monitoring, and integrate cross-functional operations. Cloud-native solutions reduce the need for extensive on-premises infrastructure while enabling rapid expansion of AI capabilities. These platforms also support advanced analytics, collaborative workflows, and remote access, making them highly appealing across sectors like healthcare, finance, and manufacturing.

The healthcare & life sciences segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the healthcare & life sciences segment is predicted to witness

the highest growth rate, owing to the increasing deployment of autonomous AI for diagnostics, personalized medicine, patient monitoring, and robotic surgery. The need for improved healthcare efficiency, lower costs, and enhanced patient outcomes drives widespread AI adoption. Integration of AI agents with telehealth, predictive analytics, and hospital management systems strengthens operational efficiency and decision-making. Furthermore, AI-powered drug research and development initiatives boost market potential.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, driven by robust technological infrastructure, widespread AI adoption, and the concentration of major tech companies. Strong investments in research, autonomous systems, and cloud-based solutions across healthcare, finance, manufacturing, and automotive industries bolster its market position. Supportive government policies, a skilled workforce, and early technology adoption further enhance growth. The region's focus on digital transformation and automation, along with increasing demand for AI-driven real-time decision-making, ensures North America remains the leading market for agentic AI, maintaining a competitive edge in global adoption and technological advancement.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, driven by accelerated digitalization, adoption of autonomous solutions, and growing AI-focused investments. Emerging countries are integrating AI across healthcare, industrial automation, and smart infrastructure projects to modernize operations. A large skilled workforce, favorable government initiatives, and increasing enterprise awareness of AI benefits support market expansion. With rising deployment of agentic AI for workflow automation, predictive decision-making, and efficiency improvements, the Asia-Pacific market is set to witness rapid growth, presenting significant opportunities across industries and establishing itself as a key growth region for autonomous AI technologies.

Key players in the market

Some of the key players in Agentic AI Market include Microsoft, Google, Amazon (AWS), OpenAI, Anthropic, NVIDIA, IBM, ServiceNow, UiPath, SAP, Salesforce, Aisera, Avanade, PwC, Intuit, Coupa, LangChain and CrewAI.

### Key Developments:

In March 2026, NVIDIA and Marvell Technology, Inc. announced a strategic partnership to connect Marvell to the NVIDIA AI factory and AI-RAN ecosystem through NVIDIA NVLink Fusion™, offering customers building on NVIDIA architectures greater choice and flexibility in developing next-generation infrastructure. The companies will also collaborate on silicon photonics technology.

In January 2026, Microsoft Corp has been awarded a \$170,444,462 firm-fixed-price task order for the Cloud One Program by the U.S. Department of War. The contract will provide Microsoft Azure cloud service offerings to support the Air Force's Cloud One Program and its customers. Work on the project will be performed at Microsoft's designated facilities across the contiguous United States.

In December 2025, IBM and Confluent, Inc. announced they have entered into a definitive agreement under which IBM will acquire all of the issued and outstanding common shares of Confluent for \$31 per share, representing an enterprise value of \$11 billion. Confluent provides a leading open-source enterprise data streaming platform that connects processes and governs reusable and reliable data and events in real time, foundational for the deployment of AI.

### Deployments Covered:

Cloud-Native Agentic Platforms

Edge-Deployed Agents

Hybrid Orchestration Models

### Functionalities Covered:

Task Automation Agents

Decision-Support Agents

Creative & Content Generation Agents

## Multi-Agent Orchestration Systems

### End Users Covered:

Banking, Financial Services & Insurance (BFSI)

Healthcare & Life Sciences

Manufacturing & Industrial IoT

Automotive & Mobility

Retail & Consumer Experience

Energy & Sustainability

### Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

#### Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

##### Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

##### Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

##### Competitive Benchmarking

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