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Global Autonomous Agents Market Size Study & Forecast, by Application, Technology, Deployment Mode, End User and Regional Forecasts 2025-2035

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Abstracts

The Global Autonomous Agents Market is valued at approximately USD 13.79 billion in 2024 and is expected to expand at a remarkable CAGR of more than 10.16% during the forecast period 2025-2035. Autonomous agents, powered by artificial intelligence, are digital entities that operate independently to perform tasks, make decisions, and interact with environments or users without continuous human oversight. These intelligent systems are rapidly transforming industries by automating decision-making processes, enhancing operational efficiency, and enabling real-time responsiveness. Market growth is being catalyzed by rapid digital transformation across key sectors, escalating demand for intelligent process automation, and growing investments in AI research and development. As enterprises seek innovative ways to elevate customer experience and optimize complex workflows, autonomous agents have emerged as strategic assets, capable of adapting and learning within dynamic environments.

A surge in deployment of AI-driven solutions across diverse domains such as industrial automation, healthcare diagnostics, and smart mobility has been instrumental in accelerating the adoption of autonomous agents. These agents seamlessly integrate technologies like machine learning, natural language processing, and computer vision to interact, learn, and evolve within digital ecosystems. For instance, in customer service, autonomous chatbots are increasingly replacing conventional human agents by delivering 24/7 personalized support. In the defense sector, these agents are being deployed in autonomous drones and surveillance systems, capable of operating in high-risk environments. Moreover, the proliferation of cloud computing and hybrid deployment models is further democratizing access to advanced autonomous technologies, empowering businesses of all sizes to adopt scalable intelligent solutions.

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From a regional standpoint, North America dominated the global autonomous agents market in 2024, a position it is expected to maintain throughout the forecast period. The region's leadership is underpinned by its robust technological infrastructure, early adoption of AI technologies, and presence of major industry players with strong R&D capabilities. In contrast, the Asia Pacific region is anticipated to experience the fastest growth rate, driven by booming digital economies in China, India, and Japan. Increasing government initiatives for smart cities, growing investments in AI startups, and the rapid automation of traditional sectors are accelerating the deployment of autonomous agents in the region. Meanwhile, Europe is steadily integrating AI in sectors such as manufacturing and logistics, driven by stringent regulatory frameworks and a focus on ethical AI deployment.

Major market player included in this report are:

IBM Corporation

Microsoft Corporation

Google LLC

Amazon Web Services, Inc.

Oracle Corporation

SAP SE

Intel Corporation

NVIDIA Corporation

Salesforce, Inc.

OpenAI, Inc.

Baidu, Inc.

Nuance Communications, Inc.

Cisco Systems, Inc.

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Infosys Limited

ServiceNow, Inc.

Global Autonomous Agents Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period - 2025-2035

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Application:

Industrial Automation

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- Healthcare
- Transportation
- Military
- Customer Service

By Technology:

- Machine Learning
- Natural Language Processing
- Computer Vision
- Robotics
- Artificial Intelligence

By Deployment Mode:

- On-Premises
- Cloud-Based
- Hybrid

By End User:

- Manufacturing
- Healthcare
- Retail

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Defense

Logistics

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

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South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

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Demand side and supply side analysis of the market.

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