

Global Autonomous AI and Autonomous Agents Market Size Study & Forecast, by Application, Technology, Deployment Model, Industry and Regional Forecasts 2025-2035

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Abstracts

The Global Autonomous AI and Autonomous Agents Market is valued at approximately USD 11.97 billion in 2024 and is projected to expand at an impressive CAGR of 23.31% during the forecast period 2025–2035. Autonomous AI, encompassing intelligent agents capable of operating independently to make decisions, learn from dynamic environments, and interact with humans and systems alike, is revolutionizing how industries execute operations. These technologies are being rapidly deployed across use cases ranging from intelligent customer service bots and AI-powered diagnostics to self-managing industrial systems. Driven by rapid digitization, exponential data growth, and surging demand for intelligent automation, enterprises are adopting autonomous agents not just for optimization, but for intelligent autonomy that evolves with minimal human supervision.

The global momentum behind autonomous AI has accelerated with advances in reinforcement learning, machine perception, and hybrid cloud ecosystems. Enterprises are increasingly integrating these technologies to bolster agility, improve predictive capabilities, and minimize human error across workflows. In the finance industry, autonomous agents are revolutionizing fraud detection and algorithmic trading, while healthcare systems are leveraging them for real-time diagnostics and patient interaction management. Simultaneously, in retail and manufacturing, AI agents are orchestrating supply chains and customer personalization strategies with minimal oversight. However, despite this exponential potential, data privacy concerns, operational transparency, and ethical deployment remain critical factors constraining widespread adoption in regulated sectors.

From a regional standpoint, North America leads the Autonomous AI and Autonomous Agents Market, underpinned by a robust R&D infrastructure, well-established AI ecosystems, and heavy capital infusion by tech giants into autonomous technologies. The U.S. in particular has become a breeding ground for start-ups and enterprises integrating AI agents across sectors like defense, healthcare, and BFSI. Europe, with its strong regulatory oversight and a focus on ethical AI, is fostering steady adoption especially in smart manufacturing and energy sectors. Meanwhile, Asia Pacific is witnessing rapid growth driven by aggressive AI strategies in China, Japan, and South Korea—countries that are investing significantly in AI-enabled robotics, autonomous logistics systems, and digital agriculture platforms.

Major market player included in this report are:

NVIDIA Corporation

Microsoft Corporation

Google LLC

Amazon Web Services, Inc.

IBM Corporation

Intel Corporation

OpenAI, Inc.

Oracle Corporation

Salesforce, Inc.

SAP SE

Baidu, Inc.

Huawei Technologies Co., Ltd.

DataRobot, Inc.

Hewlett Packard Enterprise (HPE)

SAS Institute Inc.

Global Autonomous AI and 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:

Healthcare

Automotive

Manufacturing

Retail

Finance

By Technology:

Machine Learning

Natural Language Processing

Computer Vision

Reinforcement Learning

By Deployment Model:

On-Premises

Cloud-Based

Hybrid

By Industry:

Aerospace

Telecommunications

Education

Agriculture

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

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.

Demand side and supply side analysis of the market.

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