

Autonomous AI and Autonomous Agents Market by Offering (Hardware, Software (Type (Computational Agents, Robotic Agents)) and Services), Technology (ML, NLP, Context Awareness, Computer Vision), Vertical and Region - Global Forecast to 2028

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Abstracts

The market for Autonomous AI and Autonomous Agents is projected to grow from USD 4.8 billion in 2023 to USD 28.5 billion by 2028, at a CAGR of 43.0% during the forecast period. Autonomous AI and autonomous agents are interconnected concepts within the field of AI that involve the ability of systems or entities to function independently, make decisions, and execute tasks without continuous human intervention.

The Software segment is projected to hold the largest market size during the forecast period

Software components play a critical role in enabling the functionality and intelligence of autonomous AI agents, which include robotic agents and computational agents. The software component, tailored to different agent types, enables autonomous AI agents to operate independently, perceive their environment, reason, make decisions, and execute actions to accomplish tasks and achieve objectives.

Computer vision technology is registered to grow at the highest CAGR during the forecast period

Computer vision is a fundamental technology for Autonomous AI and Agents, enabling them to perceive and understand visual information from the surrounding environment. Computer vision algorithms can process images or video streams, identify objects, recognize patterns, and extract meaningful features. For instance, in autonomous

vehicles, computer vision enables the detection of pedestrians, vehicles, and traffic signs, allowing the vehicle to make informed decisions and navigate safely. Computer vision empowers autonomous AI and agents to interact with the visual world, making them more aware, intelligent, and capable of performing complex tasks in real-world environments.

Among services, Consulting segment is anticipated to account for the largest market size during the forecast period

Consulting services in the field of Autonomous AI and Agents play a crucial role in guiding organizations through the complex landscape of AI implementation and adoption. These services provide expert guidance, strategic advice, and actionable insights to help organizations leverage the power of AI technologies effectively. Consulting services assist organizations in conducting feasibility studies, assessing data readiness, identifying appropriate AI solutions, and defining the implementation plan.

Asia Pacific is projected to witness the highest CAGR during the forecast period.

The Autonomous AI and Autonomous Agents market in Asia Pacific includes China, Japan, South Korea, ASEAN, India, AnZ, and Rest of Asia Pacific. The region's robust IT infrastructure, coupled with the widespread adoption of emerging technologies such as cloud computing, big data analytics, and the Internet of Things (IoT), provides a solid foundation for the deployment of autonomous systems. The supportive government policies, investment initiatives, and collaborations between industry players, research institutions, and startups in the APAC region contribute to the growth of the autonomous AI and agent market.

Breakdown of primaries

In-depth interviews were conducted with Chief Executive Officers (CEOs), innovation and technology directors, system integrators, and executives from various key organizations operating in the Autonomous AI and Autonomous Agents market.

By Company: Tier I: 35%, Tier II: 45%, and Tier III: 20%

By Designation: C-Level Executives: 35%, Directors: 25%, and Others: 40%

By Region: North America: 45%, APAC: 30%, Europe: 20%, ROW: 5%

Major vendors offering Autonomous AI and Autonomous Agents solutions and services across the globe are IBM (US), AWS (US), Microsoft (US), Oracle (US), Google (US), Waymo LLC (US), DeepMind (UK), OpenAI (US), Salesforce (US), SAP SE (Germany), NVIDIA Corporation (US), Baidu (China), ServiceNow (US), H2O.ai (US), Genesys (US), Aerogility (UK), Kore.ai (US), Fetch.ai (UK), Automation Anywhere (US), Tecnotree (Finland), C3.ai (US), Helpshift (US), Algotive (US), CognosysAI (US), Level AI (US), Mobileye (Israel), Deeproute.ai (China), Cogito (US), Uber Technologies (US), Attri (US).

Research Coverage

The market study covers Autonomous AI and Autonomous Agents across segments. It aims at estimating the market size and the growth potential across different segments, such as offering, technology, vertical, and region. It includes an in-depth competitive analysis of the key players in the market, along with their company profiles, key observations related to product and business offerings, recent developments, and key market strategies.

Key Benefits of Buying the Report

The report would provide the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall market for Autonomous AI and Autonomous Agents and its subsegments. It would help stakeholders understand the competitive landscape and gain more insights better to position their business and plan suitable go-to-market strategies. It also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (Increasing AI Applications as a Catalyst for Autonomous AI and Agents, Increased availability of parallel Computational Resources), restraints (Limited Adaptability and Contextual Understanding in Autonomous AI and Agents, Lack of human-AI interaction and trust), opportunities (Advancements in autonomous AI driving technology to revolutionize transportation systems, Elevating Customer Service and Personalization with Autonomous AI and Agents, Healthcare Advancements with Autonomous AI and Agents), and challenges (Ethical and legal concerns pose significant challenges for Market, Addressing data privacy and security challenges) influencing the

growth of the Autonomous AI and Autonomous Agents market

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the Autonomous AI and Autonomous Agents market.

Market Development: Comprehensive information about lucrative markets – the report analyses the Autonomous AI and Autonomous Agents market across varied regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in Autonomous AI and Autonomous Agents market strategies; the report also helps stakeholders understand the pulse of the Autonomous AI and Autonomous Agents market and provides them with information on key market drivers, restraints, challenges, and opportunities.

Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players such as IBM (US), Microsoft (US), Google (US), AWS(US) and NVIDIA (US) among others in the Autonomous AI and Autonomous Agents market.

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