

Edge AI Software Market by Technology (Generative AI, Machine Learning (ML) (Supervised Learning, Reinforcement Learning), Natural Language Processing (NLP), Computer Vision), Data Modality (Spatial Data, Temporal Data) - Global Forecast to 2030

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Abstracts

The Edge AI software market is projected to grow from USD 1.92 billion in 2024 to USD 7.19 billion by 2030, at a compound annual growth rate (CAGR) of 24.7% during the forecast period. The market is anticipated to grow due to Predictive maintenance powered by Edge AI is transforming industrial operations by enabling real-time monitoring and forecasting of equipment failures before they happen, Edge AI is enabling highly personalized experiences for consumers by processing data locally on devices like smartphones, wearables, and smart home systems and Smart grids and energy management systems are benefiting greatly from Edge AI's ability to provide distributed intelligence. However, growth may be restrained by the complexity of deploying and managing machine learning models at the edge, the absence of standard protocols and interoperability between different Edge AI platforms, devices, and ecosystems can slow down adoption and the high initial investment required to build and scale Edge AI infrastructure can be prohibitive for some organizations.

“Edge AI Platform Solutions Leading the Market with Highest CAGR Growth”

Platform solutions are expected to register the highest CAGR growth in the Edge AI software market due to their ability to integrate diverse AI capabilities, streamline deployment, and support scalable applications across industries. These platforms enable seamless development, testing, and deployment of AI models on edge devices,

reducing complexity and accelerating time-to-market. Future opportunities lie in leveraging these solutions for autonomous systems, advanced robotics, and distributed IoT ecosystems, where customizable platforms can address specific requirements for real-time analytics, data security, and interoperability, driving adoption across sectors like healthcare, automotive, and industrial automation.

“Predictive Maintenance and Robotics Automation Transforming Manufacturing with Edge AI”

During the forecast period, the manufacturing sector is anticipated to dominate the Edge AI software market, driven by its adoption for real-time quality control, predictive maintenance, and robotics automation. Edge AI enables manufacturers to process vast amounts of machine data locally, reducing latency and enhancing operational efficiency. Future opportunities include leveraging Edge AI for smart factory solutions, optimizing energy consumption, and enabling autonomous production lines. As manufacturers prioritize Industry 4.0 initiatives and demand localized intelligence for critical operations, the deployment of Edge AI software in this sector will continue to expand rapidly.

“Asia Pacific's rapid edge AI software market growth fueled by innovation and emerging technologies, while North America leads in market size”

Asia Pacific is projected to be the fastest-growing market for Edge AI software during the forecast period, driven by rapid industrialization, increasing adoption of IoT devices, and significant investments in smart city initiatives. The region's growing demand for localized data processing in sectors like manufacturing, retail, and telecommunications further boosts this trend. Meanwhile, North America holds the largest market share due to its early adoption of advanced technologies, strong presence of key players, and robust infrastructure supporting AI deployment. Future opportunities include expanding Edge AI applications in Asia Pacific's emerging markets for autonomous systems and real-time analytics, while North America continues to innovate in areas like healthcare and defense with cutting-edge edge computing solutions.

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 Edge AI software market.

By Company: Tier I – 30%, Tier II – 40%, and Tier III – 30%

By Designation: C-Level Executives – 35%, D-Level Executives – 25%, and others – 40%

By Region: North America – 30%, Europe – 35%, Asia Pacific – 25%, Middle East & Africa – 5%, and Latin America – 5%

The report includes the study of key players offering edge AI software market. It profiles major vendors in the Edge AI software market. The major players in the Edge AI software market include Microsoft (US), IBM (US), Google (US), AWS (US), Nutanix (US), Synaptics (US), Gorilla Technologies (UK), Intel (US), VEEA (US), Infineon Technologies (German), Intent HQ (UK), Baidu (China), NVIDIA (US), Alibaba Group (Singapore), Bosch Global Software Technologies (India), Azion (US), Blaize (US), ClearBlade (US), Johnson Controls (US), Midokura (Japan), Latent AI (US), Axelera AI (Netherlands), Teraki (Germany), Ekkono (Sweden), Edge Impulse (US), Spectro Cloud (US), Barbara (Spain), Invision AI (US), Horizon Robotics (China), and Kneron (US).

Research coverage

This research report categorizes the Edge AI software Market By offering (Software [By Type and By Deployment mode] and Services [Professional services and Managed services]), By data Modality (Visual data, Auditory data, Textual data, Spatial data, Temporal data and Multi-modal data), By Technology (Generative AI and Other AI [Machine learning, Natural language processing, Computer vision and Others]), By End Uses (Manufacturing, Smart cities, BFSI, Healthcare & life sciences, Energy & utilities, Telecommunication, Retail, Automotive, Transportation & logistics, Consumer electronics & devices and Other end uses [IT & ITeS, Education and Agriculture]), and By Region (North America, Europe, Asia Pacific, Middle East & Africa, and Latin America). The scope of the report covers detailed information regarding the major factors, such as drivers, restraints, challenges, and opportunities, influencing the growth of the Edge AI software market. A detailed analysis of the key industry players has been done to provide insights into their business overview, solutions, and services; key strategies; contracts, partnerships, agreements, new product & service launches, mergers and acquisitions, and recent developments associated with the Edge AI software market. Competitive analysis of upcoming startups in the Edge AI software market ecosystem is covered in this report.

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 Edge AI software market 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 number of intelligent applications, rising use of IoT applications, increasing adoption of 5G network technology, exponential growth of data volume and network traffic), restraints (Bandwidth limitations resulting from the need for continuous data transfer and limited availability of AI experts), opportunities (growing deployment of TinyML, rising demand of autonomous and connected vehicles, emergence of transformative applications in various fields), and challenges (Need for optimization of edge AI standards, complexity of integrating diverse systems and lack of hardware standards).

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

Market Development: Comprehensive information about lucrative markets – the report analyses the Edge AI software market across varied regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the Edge AI software market.

Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players like Microsoft (US), IBM (US), Google (US), AWS (US), Nutanix (US), Synaptics (US), Gorilla Technologies (UK), Intel (US), VEEA (US), Infineon Technologies (Germany), Intent HQ (UK), Baidu (China), NVIDIA (US), Alibaba Group (Singapore), Bosch Global Software Technologies (India), Azion (US), Blaize (US), ClearBlade (US), Johnson Controls (US), Midokura (Japan), Latent AI (US), Axelera AI (Netherlands), Teraki (Germany), Ekkono (Sweden), Edge Impulse (US), Spectro Cloud (US),

Barbara (Spain), Invision AI (US), Horizon Robotics (China), and Kneron (US), among others in the Edge AI software market. The report also helps stakeholders understand the pulse of the Edge AI software market and provides them with information on key market drivers, restraints, challenges, and opportunities.

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