

Driving 19.9% CAGR | Artificial Neural Network Market Size Reach USD 1.4 Billion by 2032

WILMINGTON, DE, UNITED STATES, November 17, 2025 /EINPresswire.com/ -- Allied Market Research published a new report, titled, "Driving 19.9% CAGR | [Artificial Neural Network Market Size](#) Reach USD 1.4 Billion by 2032." The report offers an extensive analysis of key growth strategies, drivers, opportunities, key segment, Porter's Five Forces analysis, and competitive landscape. This study is a helpful source of information for market players, investors, VPs, stakeholders, and new entrants to gain thorough understanding of the industry and determine steps to be taken to gain competitive advantage.

The global artificial neural network market size was valued at \$227.8 million in 2022, and is projected to reach \$1.4 billion by 2032, growing at a CAGR of 19.9% from 2023 to 2032.

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The notable factors positively affecting the artificial neural network market include the growing demand for AI-based solutions and the rising need for intelligent business processes. However, a lack of computational resources and a skilled workforce with expertise in artificial neural network (ANN) can hinder market growth. Furthermore, advancements in big data analytics and the availability of high-performance computing systems offer lucrative market opportunities for the market players.

The global artificial neural network market is segmented on the basis of component, deployment mode, enterprise size, industry, and region. By component, it is categorized into solution and services. On the basis of deployment mode, it is divided into on-premise and cloud. By enterprise size, it is segmented into large enterprises and small and medium-sized enterprises. Depending on industry, it is categorized into healthcare, BFSI, retail and e-commerce, manufacturing, automotive, and others. Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Competitive analysis and profiles of the major players, such as Amazon Web Services Inc., Google Inc., Hewlett Packard Enterprise Development LP, IBM Corporation, Intel Corporation, Microsoft Corporation, NVIDIA Corporation, Oracle Corporation, Qualcomm Technologies Inc. and Salesforce Inc., are mentioned in the report. These players have adopted various strategies

to increase their market penetration and strengthen their position in the storage area network industry.

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Based on region, the North America segment held the highest market share in terms of revenue in 2022, accounting for less than two-fifths of the artificial neural network market revenue. The increase in the usage of artificial neural network solutions in businesses to improve businesses and the customer experience is anticipated to propel the growth of the market in this region. However, the Asia-Pacific segment is projected to manifest the highest CAGR of 21.8% from 2023 to 2032. Countries such as China, India, and South Korea are at the forefront, embracing digital technologies to enhance their effectiveness and competitiveness, which is further expected to contribute to the growth of the market in this region.

Based on component, the solution segment held the highest market share in 2022, accounting for less than two-fifths of the artificial neural network market revenue, and is estimated to maintain its leadership status throughout the forecast period. This is attributed to the growing need for a high level of personalization which is one of the primary reasons enterprises are increasing their investment in the artificial neural network market. However, the services segment is projected to manifest the highest CAGR of 21.8% from 2023 to 2032. The services segment is expected to witness the highest growth, as these services help to reduce the time and costs associated with optimizing systems in the initial phase of deployment.

Based on deployment mode, the on-premise segment accounted for the largest share in 2022, contributing for more than one-fourth of the artificial neural network market revenue. An increase in the need for secure and reliable data within the organization is fueling the market growth for on-premises-based artificial neural network solutions. However, the cloud segment is expected to portray the largest CAGR of 21.2% from 2023 to 2032 and is projected to maintain its lead position during the forecast period. It provides several advantages such as reducing costs, supporting business, and effectively controlling the business environment in the organization.

Based on enterprise size, the large enterprises segment accounted for the largest share in 2022, contributing for more than one-fourth of the artificial neural network market revenue, owing to the growing demand for artificial neural network solutions in large enterprises which is fueling the market growth in these enterprises. However, the small and medium-sized enterprises segment is expected to portray the largest CAGR of 22.2% from 2023 to 2032 and is projected to maintain its lead position during the forecast period. It provides various benefits to the small and medium-sized enterprises organization.

Based on industry vertical, the healthcare segment accounted for the largest share in 2022, contributing for less than two-fifths of the artificial neural network market revenue, owing to the development of digital technologies in IT sector. However, the manufacturing segment is

projected to manifest the highest CAGR of 24.3% from 2023 to 2032. The surge in implementation of automation trends and the increase in utilization of digital technology in this sector are expected to provide lucrative opportunities for the market.

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Recent Product launches in the Artificial Neural Network Market

In April 2023, Google LLC launched a cloud-based automation toolkit for healthcare organizations and previewed Med-PaLM 2, a neural network capable of answering medical exam questions.

In August 2021, IBM Corporation unveiled details of the upcoming new IBM Telum Processor designed to bring deep learning inference to enterprise workloads to help address fraud in real-time..

Recent Partnerships in the Artificial Neural Network Market

In June 2023, Snowflake partnered with Microsoft to simplify joint customers' artificial intelligence projects. A core focus of the collaboration is Microsoft's Azure OpenAI Service. It provides cloud-based versions of OpenAI LP's machine learning models, including GPT-4.

In November 2021, Qualcomm Technologies partnered with Google Cloud, on Neural Architecture Search (NAS), enabling the companies to create and optimize AI models automatically rather than manually.

Thanks for reading this article, you can also get an individual chapter-wise section or region-wise report versions like North America, Europe, or Asia.

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Lastly, this report provides market intelligence most comprehensively. The report structure has been kept such that it offers maximum business value. It provides critical insights into the market dynamics and will enable strategic decision-making for the existing market players as well as those willing to enter the market.

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Pawan Kumar, the CEO of Allied Market Research, is leading the organization toward providing high-quality data and insights. We are in professional corporate relations with various companies. This helps us dig out market data that helps us generate accurate research data tables and confirm utmost accuracy in our market forecasting. Every data company in the domain is concerned. Our secondary data procurement methodology includes deep presented in the reports published by us is extracted through primary interviews with top officials from leading online and offline research and discussion with knowledgeable professionals and analysts in the industry.

Contact:

David Correa
1209 Orange Street,
Corporation Trust Center,
Wilmington, New Castle,
Delaware 19801 USA.
Int'l: +1-503-894-6022
Toll Free: +1-800-792-5285
UK: +44-845-528-1300
India (Pune): +91-20-66346060
Fax: +1-800-792-5285
help@alliedmarketresearch.com

David Correa
Allied Market Research
+ + + + +1 800-792-5285

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