Deep Learning Chip Market to Reach USD 81.77 Billion by 2030, Top Impacting Factors

The deep learning chip market was valued at $4,465.2 million in 2020, and is to reach $81,776.8 million by 2030, registering a CAGR of 35.2% from 2021 to 2030.

WILMINGTON, DE, UNITED STATES, August 4, 2025 /EINPresswire.com/ -- Allied Market Research published a report on the Deep Learning Chip Market By Chip Type (GPU, ASIC, FPGA, CPU, Others), Technology (System on Chip, System in Package, Multi Chip Module and Others), and Industry Vertical (Media & Advertising, BFSI, IT & Telecommunication, Retail, Healthcare, Automotive, Others): Global Opportunity Analysis and Industry Forecast, 2021–2030

> By chip type, the GPU segment generated the highest revenue in the deep learning chip market in 2020.
>
> *Allied Market Research*

The deep learning chip market size was valued at $4,465.2 million in 2020, and is projected to reach $81,776.8 million by 2030, growing at a CAGR of 35.2% from 2021 to 2030.

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Deep learning is a sub-set of machine learning, which is a sub-set of artificial intelligence (AI) that is achieved to perform tasks related to AI. Deep learning works as a brain, which has been penetrating in several industries around the world. This technology is achieved with software, such as computer vision, voice recognition, speech synthesis, machine translation, game playing, drug discovery, and robotics. Deep learning chips are specialized Silicon chips, which incorporate AI and machine learning technology.

Competitive Analysis:
The competitive environment of the deep learning chip industry is further examined in the report. It includes details about the key players in the market's strengths, product portfolio, deep learning chip market share and size analysis, operational results, and market positioning. It comprises the actions taken by the players to grow and expand their presence through agreements and entering new business sectors. Mergers and acquisitions, joint ventures, and product launches are some of the other techniques used by players.

Some of the major key players of the deep learning chip industry include:
• AMD (Advanced Micro Devices)
• Google, Inc
• Intel Corporation
• NVIDIA
• Baidu
• Bitmain Technologies
• Qualcomm
• Amazon
• Xilinx
• Samsung

Top Impacting Factors:
Notable factors positively affecting the growth of the deep learning chip market include increase in demand for smart homes and smart cities. Deep learning provides impetus to initiate smart city programs in developing countries, such as India. Tools and technologies that are artificially intelligent possess a massive potential to transform interconnected digital homes and smart cities. Furthermore, creation of a chip that embeds inbuilt AI network has emerged as an opportunity for the market. Further, emergence of quantum computing and increase in number of AI applications boost the growth of the deep learning chip industry.

The research report presents a complete judgment of the deep learning chip market trends, growth factors, consumption, production volume, CAGR value, attentive opinions, profit margin, price, and industry-validated market data. Also, these research report provides accurate economic, global, and country-level predictions and analysis, size and share analysis, market dynamics, segmental analysis, top investment pockets, competition landscape, market drivers, restraints, and opportunities

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Key Benefits for Stakeholders:
• This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the deep learning chip market analysis from 2022 to 2032 to identify the prevailing deep learning chip market opportunities.
• Market research is offered along with information related to key drivers, restraints, and opportunities.
• Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and
strengthen their supplier-buyer network.
• In-depth analysis of the deep learning chip market segmentation assists to determine the prevailing market opportunities.
• Major countries in each region are mapped according to their revenue contribution to the

global market.
• Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.
• The report includes the analysis of the regional as well as global deep learning chip market trends, key players, market segments, application areas, and market growth strategies.

Leading players of the global deep learning chip market analyzed in the research include AMD (Advanced Micro Devices), Google, Inc., Intel Corporation, NVIDIA, Baidu, Bitmain Technologies, Qualcomm, Amazon, Xilinx, and Samsung.

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