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Global AI Chipsets Market Size study & Forecast, by Component (Central Processing Unit (CPU), Graphics Processing Unit (GPU), and Neural Network Processor (NNP)), by Application (Consumer Electronics, Automotive, Healthcare, Automation & Robotics) and Regional Analysis, 2022-2029

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Abstracts

Global AI Chipsets Market is valued at approximately USD 8.14 billion in 2021 and is anticipated to grow with a healthy growth rate of more than 39% over the forecast period 2022-2029. AI Chipsets is an integrated circuit specialized for training and running neural networks, with the AI software architecture. It has the capability to perform demanding deep learning tasks such as object detection and segmentation in real time with minimal power consumption. The AI Chipsets market is expanding because of factors such emergence of quantum computing aid market. It's an oligopolistic market dominated by IBM Corporation, Intel Corporation, Samsung Semiconductor (Samsung Electronics Co. Ltd) and Huawei Technologies Co. Ltd. Quantum computing is globally accepted by most enterprises. It can help solve industry technical and business challenges such as cryptography, supply chain problems, financial modelling, and drug development. These are just some of the near-term accelerating challenges that classical computer technology must face in today's approaches. For example, Google LLC's Sycamore quantum computer is the fastest computer and can complete a task in about 200 seconds. Technologies such as artificial intelligence, machine learning, computer vision, big data, and AR/VR make quantum computing possible. A better understanding of quantum computing will increase the demand for AI chipsets and drive the growth of the industry. According to Statista, the revenue generated by the global quantum computing market was 412 million USD in 2020, it is expected to be increased to 8.6 billion USD by the time of 2027. Moreover,

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the rising adoption of cloud-based solutions and increased focus on human-aware AI systems is expected to boost the growth of the AI Chipsets market in the forecasting years. However, the lack of skilled ai potential workforce stifles market growth throughout the forecast period of 2022-2029.

The key regions considered for the Global AI Chipsets Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. Asia Pacific dominated the market in terms of revenue, owing to the dominance of branded products and the region's increasing technological prevalence. In June 2019, Prime Minister Shinzo Abe announced plans to train 250,000 people a year in AI skills by 2025 for the purpose of human capital development. North America is expected to grow with the highest CAGR during the forecast period, owing to factors such as rising geriatric and target populations, an increase in the number of collaborations for development, geographic expansion of key players, and active participation of government and nonprofits organizations in the market space.

Major market player included in this report are:
Intel Corporation
Huawei Technologies Co. Ltd
NVIDIA Corporation
Micron Technology Inc.
International Business Machine Corporation
Advanced Micro Devices Inc. (AMD)
Xilinx Inc.
Graphcore
Samsung Semiconductor (Samsung Electronics Co. Ltd)
Media Tek Inc
Recent Developments in the Market:
May 2022 - Intel introduces two new deep learning processors for instruction and inference: Habana Gaudi2 and Habana GrecoTM. These revolutionary processors provide customers with a highly efficient, high-performance deep learning computing option for concurrent training applications and inference installations in data centers, reducing the barrier to entry for AI for organizations of all sizes. Closing the gap in the market by lowering.
February 2022 - Celestial AI, an AI accelerator company with its own hardware and software for machine learning chipsets, announced a $56 million Series A investment. The new funding will be used for product development and signing with strategic suppliers, including Broadcom.
January 2022 – Nvidia and AMD have announced that the US government has

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introduced new restrictions banning China and Russia from high-end AI chips.
March 2021 - Intel, in collaboration with the Central Board of Secondary Education (CBSE), has launched the AI for All initiative to develop a fundamental understanding of artificial intelligence in various industries.

Global AI Chipsets Market Report Scope:
Historical Data 2019-2020-2021
Base Year for Estimation 2021
Forecast period 2022-2029
Report Coverage Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends
Segments Covered Component, Application, Region
Regional Scope North America; Europe; Asia Pacific; Latin America; Rest of the World
Customization Scope Free report customization (equivalent up to 8 analyst's 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 to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Component:
Central Processing Unit (CPU)
Graphics Processing Unit (GPU)
Neural Network Processor (NNP)
Other Components

By Application:
Consumer Electronics
Automotive
Healthcare
Automation and Robotics
Other Applications

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By Region:
North America
U.S.
Canada
Europe
UK
Germany
France
Spain
Italy
ROE
Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC
Latin America
Brazil
Mexico
RoLA
Rest of the World

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