Japan Deep Learning Market By Offering (Hardware, Software, and Services), By Application (Image Recognition, Signal Recognition, and Data Mining), By End-User Industry (Healthcare, Retail, Automotive, Security, Manufacturing, and Others), By Architecture (RNN, CNN, DBN, DSN, and GRU), and By Region, Competition Forecast and Opportunities, 2027

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Abstracts

The Japan deep learning market is expected to grow at an impressive CAGR in the forecast period, FY2023-FY2027. High demand from the manufacturing industry, supportive government policies, and declining hardware costs are the primary factors driving the growth of the Japan deep learning market throughout the forecast period.

The adoption of Deep Learning Technology by the Manufacturing Industry Drives the Market Growth

The Japanese government is promoting advanced technologies to increase productivity and profit and minimize the loss incurred in organizations. The presence of well-developed technological infrastructure and the allocation of huge funds by the government for research & development activities support the easy implementation of advanced technology in existing infrastructure. Japan is leading the world in industrial robot technology and plans to integrate robotic technology with an open-source deep-learning framework for better results. Manufacturing industries are using industrial robots to streamline and optimize their operations. The addition of deep learning technology enables the industrial robot to make accurate judgments during complex processes by learning from past examples and can share the knowledge instantaneously with other present industrial robots. Industrial robots can make informed

decisions to select the best position to pick up the block from a disorganized pile Using image recognition with three-dimensional images and deep learning. By using deep learning technology, industrial robots can detect and prevent malfunctions beforehand, which ensures increased productivity in the manufacturing industries.

High Demand for Self-Driving Cars Boosts the Market growth

The project announced by the government, "Road to the L4," aiming to boost the proliferation of advanced mobility services in the country, including level 4 autonomous driving, is expected to create lucrative opportunities for the Japanese deep learning market. In rural areas, older people cannot drive vehicles with great accuracy, which results in a rise in the number of road accidents. Also, the ministry of economy, trade, and industry (METI) has planned to develop 40 autonomous taxi test sites nationwide by 2025. Autonomous vehicles or self-driving cars use deep learning technology to prevent the occurrence of road casualties and enhance the quality of life of consumers. The introduction of autonomous vehicles to support the growing geriatric population and the development of supportive road infrastructure are expected to accelerate the Japan deep learning market growth over the next five years.

Increased Adoption of Deep Learning Technology by the Healthcare Industry Supports the Market Demand

The rise in the adoption of advanced technologies by the healthcare industry to improve customer experience and maintain the patient's record efficiently is positively impacting the market demand. The growing geriatric population and the surge in efforts and investments by the leading government to improve elderly care services are accelerating the adoption of deep learning technology across the healthcare vertical. Deep learning technology can also be used to reduce the time wasted in recognizing and categorizing patient belongings and optimize the process of room allocation. Increased penetration of telehealth and patient monitoring devices is further expected to fuel the Japan deep learning market growth for the next five years.

Market Segmentation

The Japan deep learning market is segmented into an offering, application, end-user industry, architecture, company, and regional distribution. Based on the offering, the market is divided into hardware, software, and services. Based on application, the market is divided into image recognition, signal recognition, and data mining. Based on the end-user industry, the market is divided into healthcare, retail, automotive, security,

manufacturing, and others. Based on architecture, the market is divided into RNN, CNN, DBN, DSN, and GRU. The market is also studied based on regional distribution and the regions are majorly divided into Hokkaido & Tohoku, Kanto, Chubu, Kansai, Chugoku, Shikoku, and Kyushu.

Market Players

Amazon Web Services (AWS), Google Inc., IBM Corporation, Intel Corporation, Microsoft Corporation, Preferred Networks, Abeja Inc., Cinnamon Inc., Ubie, and Ascent Robotics, is the major market players operating in the Japan deep learning market.

Report Scope:

In this report, Japan's deep learning market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Japan Deep Learning Market, By Offering:

Hardware

Software

Services

Japan Deep Learning Market, By Application:

Image Recognition

Signal Recognition

Data Mining

Japan Deep Learning Market, By End-User Industry:

Healthcare

Retail

Automotive

Security

Manufacturing

Others

Japan Deep Learning Market, By Architecture:

RNN

CNN

DBN

DSN

GRU

Japan Deep Learning Market, By Region:

Hokkaido & Tohoku

Kanto

Chubu

Kansai

Chugoku

Shikoku

Kyushu

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in Japan's deep

learning market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

      Detailed analysis and profiling of additional market players (up to five).

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