

# **Global Deep Learning Market Size study & Forecast, by Solution(Hardware, Software and Services), by Hardware (Central Processing Unit (CPU), Graphics Processing Unit (GPU), Field Programmable Gate Array (FPGA), Application-Specific Integration Circuit (ASIC))by Application (Image recognition, Voice recognition, Video surveillance & diagnostics and Data mining), by End Use (Automotive, Aerospace & Defense, Healthcare, Retail and Others) and Regional Analysis, 2022-2029**

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## **Abstracts**

Global Deep Learning Market is valued approximately at USD 37.15billion in 2021 and is anticipated to grow with a healthy growth rate of more than 33.5% over the forecast period 2022-2029. A sequence of computer instructions or algorithms known as 'deep learning' are based on the structure and operation of the brain. It is a branch of machine learning. Deep learning is a method for teaching computers to learn by doing. Deep learning is frequently referred to as artificial neural networks or deep neural networks. Statistics and predictive modelling are also important components of data science, which also includes deep learning. The Deep Learning market is expanding because of factors such as increased penetration in big data analytics, improvement in deep learning algorithms and rising investment for the development of AI and ML. However, requirement of large training datasets for recognition and high capital investment may halt market growth.

According to Statista, in year 2018 Volume of data/information created, captured,

copied, and consumed worldwide stood at 33 zettabytes which increased to 79 zettabytes in year 2021 and it is projected to reach at 181 zettabytes by year 2025. Thus, rise in generation of data volume across the world is fostering market growth. Thus rising data volume generation across the world is catering the market growth. Along with these, the market is growing rapidly due to the widespread adoption of connected devices in educational institutions and government measures to enhance industry vertical digitalization. For instance, the Australian Catholic University (ACU) created a data lake in July 2020 using its newly combined data environment to offer a unified view of student progress. In order to assist students who might require further support or who run the risk of quitting the university altogether, it makes use of Microsoft's Power BI and Azure data platform. As a result, this is seen as a significant component promoting market expansion. In addition, increasing adoption of cloud-based technology across several industries. However, the high cost of Deep Learning stifles market growth throughout the forecast period of 2022-2029.

The key regions considered for the Global Deep Learning Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America dominated the market in terms of revenue, owing to rising investment in artificial intelligence, rise in adoption of image and pattern recognition technology. Whereas, Europe is expected to grow with a highest CAGR during the forecast period, owing to factors such as rising government initiatives to adopt artificial intelligence and machine learning in various end use industry.

Major market player included in this report are:

Advanced Micro Devices, Inc.

ARM Ltd.

Clarifai, Inc.

Entilic

Google, Inc.

HyperVerge

IBM Corporation

Intel Corporation

Microsoft Corporation

NVIDIA Corporation

Recent Developments in the Market:

In June 2020, Facebook AI Research announced the launch of TransCoder. It is a system which utilizes unsupervised deep-learning in conversion of code from one programming language to the another.

In May 2020, IBM announced that it would use a variety of artificial intelligence (AI) technologies to automate the management of IT operations and modernise applications. It employs machine learning and deep learning algorithms to time series data, semi-structured logs, structured data, and unstructured data spanning IT issues and human dialogues to trace the history of a problem.

Global Deep Learning 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 Solution, Hardware, Application, End use, 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 Solution offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Solution:

Hardware

Software

Services

By Hardware:

Central Processing Unit (CPU)

Graphics Processing Unit (GPU)

Field Programmable Gate Array (FPGA)

Application-Specific Integration Circuit (ASIC)

By Application:

Image recognition

Voice recognition

Video surveillance & diagnostics

Data mining

By End Use:

Automotive

Aerospace & Defense

Healthcare

Retail

Others

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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