

Deep Learning Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global deep learning market size reached US\$ 17.2 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 113.0 Billion by 2028, exhibiting a growth rate (CAGR) of 38.2% during 2023-2028.

Deep learning, or deep structured learning, is a division of machine learning that uses layered algorithmic models for analyzing data. It is a crucial component of data science, which uses statistics and predictive modeling for collecting, analyzing and interpreting large amounts of information. It also involves the use of artificial intelligence (AI) to imitate the functioning of the human brain while processing data, forming patterns and making decisions. This technology is commonly used in image recognition tools, natural language processing (NLP) and speech recognition software, self-driving vehicles and language translation services and finds extensive applications across the retail, healthcare, automotive, agriculture, security and manufacturing industries.

The expanding information technology (IT) industry, along with the rising trend of digitalization, is one of the key factors driving the growth of the market. In comparison to the traditionally used computing systems, deep learning algorithms can automatically intercept available data points, which enhances the efficiency and accuracy of the decision-making process. Furthermore, deep learning solutions are widely employed for cybersecurity, database management and fraud detection systems. They are also utilized for processing medical images for disease diagnosis and drug discovery and offering virtual patient assistance in the healthcare sector, which is contributing to the widespread adoption of the technology. Other factors, including its integration with big data analytics and cloud computing, along with extensive research and development (R&D) activities to develop improved hardware and software processing solutions for deep learning, are projected to drive the market in the coming years.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global deep learning market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on product type, application, end-use industry and architecture.

Breakup by Product Type:

- Software
- Services
- Hardware

Breakup by Application:

- Image Recognition
- Signal Recognition
- Data Mining
- Others

Breakup by End-Use Industry:

- Security
- Manufacturing
- Retail
- Automotive
- Healthcare
- Agriculture
- Others

Breakup by Architecture:

- RNN
- CNN
- DBN
- DSN
- GRU

Breakup by Region:

North America

United States

Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being Amazon Web Services (AWS), Google Inc., IBM, Intel, Micron Technology, Microsoft Corporation, Nvidia, Qualcomm, Samsung Electronics, Sensory Inc., Pathmind, Inc., Xilinx, etc.

Key Questions Answered in This Report

1. What was the size of the global deep learning market in 2022?
2. What is the expected growth rate of the global deep learning market during 2023-2028?
3. What has been the impact of COVID-19 on the global deep learning market?
4. What are the key factors driving the global deep learning market?

5. What is the breakup of the global deep learning market based on the product type?
6. What is the breakup of the global deep learning market based on the application?
7. What is the breakup of the global deep learning market based on the end-use industry?
8. What are the key regions in the global deep learning market?
9. Who are the key players/companies in the global deep learning market?

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