

Global Graph Neural Networks Market Growth (Status and Outlook) 2026-2032

<https://marketpublishers.com/r/G02BDE7D5054EN.html>

Date: May 2026

Pages: 93

Price: US\$ 3,660.00 (Single User License)

ID: G02BDE7D5054EN

Abstracts

The global Graph Neural Networks market size is predicted to grow from US\$ 2876 million in 2025 to US\$ 15445 million in 2032; it is expected to grow at a CAGR of 27.3% from 2026 to 2032.

Graph Neural Networks (GNNs) are a class of deep learning models designed to operate directly on graph-structured data by learning representations of nodes, edges, and entire graphs through iterative message passing among connected entities. Unlike traditional neural networks that assume fixed-grid inputs, GNNs exploit the relational topology of graphs, aggregating and transforming information from each node's neighbors to capture both local structure and global context. This enables GNNs to model complex dependencies in non-Euclidean domains such as social networks, molecular structures, knowledge graphs, transportation systems, and recommendation engines, making them particularly effective for tasks like node classification, link prediction, graph clustering, and graph-level inference.

This report presents a comprehensive overview, market shares, and growth opportunities of Graph Neural Networks market by product type, application, key players and key regions and countries.

Segmentation by Type:

Homogeneous GNNs

Heterogeneous GNNs

Segmentation by Learning Paradigm:

Transductive GNNs

Inductive GNNs

Segmentation by Application:

IT & Telecom

Autonomous Driving

Industrial Automation

Others

This report also splits the market by region:

United States

China

Europe

Other regions

Japan

South Korea

Southeast Asia

Rest of world

The report also presents the market competition landscape and a corresponding detailed analysis of the major players in the market. The key players covered in this

report:

Google

OpenAI

Anthropic

Meta

Baidu

IBM

Tesla

Micropsi

Corti

Blackbird.AI

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