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Global Neural Networks For Self-Driving Cars Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Neural Networks For Self-Driving Cars market size is predicted to grow from US$ 6646 million in 2025 to US$ 30564 million in 2032; it is expected to grow at a CAGR of 24.5% from 2026 to 2032.

Neural networks for self-driving cars are machine learning models inspired by the human brain that process large volumes of sensor data—such as images from cameras, point clouds from LiDAR, radar signals, and vehicle telemetry—to perceive the environment, make decisions, and control vehicle behavior. These networks, often implemented as deep learning architectures like convolutional neural networks (CNNs), recurrent neural networks (RNNs), and transformers, are trained on massive datasets to recognize objects, detect lanes and traffic signs, predict the motion of other road users, and plan safe driving actions in real time. By continuously learning complex, nonlinear relationships between sensor inputs and driving outputs, neural networks enable autonomous vehicles to adapt to diverse road conditions, traffic scenarios, and environmental uncertainties with high accuracy and robustness.

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

Segmentation by Type:

Low Parameter Networks (MLPs, GRUs)

Medium Parameter Networks (CNNs, RNNs, Autoencoders)

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High Parameter Networks (GNNs, Transformers)

Segmentation by AI Model Type:

Supervised Learning Models

Unsupervised Learning Models

Segmentation by Application:

L2-3 Autonomous Driving

L4 Autonomous Driving

L5 Autonomous Driving

This report also splits the market by region:

United States

China%li%

Europe

Other regions

Japan

South Korea

Southeast Asia

Rest of world

The report also presents the market competition landscape and a corresponding

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detailed analysis of the major players in the market. The key players covered in this report:

Waymo

Tesla

NVIDIA AI Platform

Motional

Wayve

Pony.ai

Nuro

Helm.ai

Aptiv

Mobileye

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