

# Artificial Intelligence (AI) Quantization Tools Market: Analysis of Future Demand and Leading Key Players Through 2030

*The Business Research Company's  
Quantization Tools For Artificial  
Intelligence (AI) Market Report 2026 –  
Market Size, Trends, And Global Forecast  
2026-2035*

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[/Einpresswire.com/](https://www.einpresswire.com/) -- The field of

artificial intelligence (AI) is advancing rapidly, with various supportive technologies emerging to enhance AI performance and efficiency. One such area gaining considerable attention is the quantization tools market, which plays a crucial role in optimizing AI models for practical deployment. Let's explore the current market dynamics, growth drivers, key players, and future outlook for quantization tools in AI.



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Market Expansion and Forecast for Quantization Tools in AI

The [quantization tools for artificial intelligence \(AI\) market](#) has experienced swift growth recently. It is projected to increase from \$0.92 billion in 2025 to \$1.09 billion in 2026, representing a compound annual growth rate (CAGR) of 19.0%. This rise during the past years is largely driven by the expanding size of deep learning models, escalating

costs of GPUs and accelerators, growing applications of edge computing, the need for faster AI inference, and wider AI adoption across various industries.

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Looking ahead, the market is expected to continue its rapid upward trajectory, reaching \$2.2 billion by 2030, with a CAGR of 19.2%. Key factors fueling this growth include the surge in AI



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deployment on edge devices, increasing demand for energy-efficient AI solutions, broadening on-device inference applications, the development of custom AI chips, and greater enterprise investment in AI optimization. Emerging trends anticipated in this period involve enhanced adoption of model compression methods, expansion of edge AI optimization techniques, hardware-tailored quantization, growth in low-precision inference frameworks, and the integration of automated quantization workflows.

### Understanding Quantization Tools in AI Technology

[Quantization tools in artificial intelligence market](#) refer to technologies designed to convert AI model parameters and computations from high-precision data formats to lower-precision alternatives. This transformation helps reduce both the model size and computational load while preserving acceptable levels of accuracy. The benefits include faster inference speeds, decreased energy consumption, and the ability to deploy AI models efficiently on edge devices and systems with limited resources.

View the full quantization tools for artificial intelligence (ai) market report:

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### Key Factors Boosting Demand in the Quantization Tools for AI Market

One of the primary forces driving the demand for quantization tools is the rising cost of AI computing and energy consumption. These costs are linked to the power and cooling requirements of the high-performance computing infrastructure necessary for training and running sophisticated AI models. As large AI models depend heavily on energy-intensive GPUs and accelerators, operational expenses and electricity use have surged substantially. Quantization tools address these challenges by lowering the precision requirements of AI models while maintaining accuracy, which reduces computational demands and power usage during AI inference and deployment. This allows organizations to deploy AI at scale more cost-effectively while managing infrastructure and energy expenditures. For example, Sherwood, a US-based company, reports that AI-related data center power demand increased roughly threefold from 0.2 gigawatts (GW) in 2023 to 0.6 GW in 2024, with projections reaching about 1.9 GW in 2025. This nearly 9.5-fold increase over the period highlights the growing financial pressures from AI compute demands, reinforcing the market growth for quantization tools.

### Regional Leaders and Growth Patterns in Quantization Tools for AI

In 2025, North America held the largest share of the quantization tools for artificial intelligence market. However, the Asia-Pacific region is predicted to experience the fastest growth rate through the forecast period. The market report covers various regions including Asia-Pacific, South East Asia, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa, providing a comprehensive view of the global landscape for these technologies.

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