

# **AI Inference Market Size, Share & Trends Analysis Report By Memory (HBM, DDR), By Compute, By Application (Generative AI, Machine Learning, Natural Language Processing (NLP), Computer Vision), By End-use, By Region, And Segment Forecasts 2025 - 2030**

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## **Abstracts**

This report can be delivered to the clients within 4 Business Days

### **AI Inference Market Summary**

The global AI inference market size was estimated at USD 97.24 billion in 2024 and is projected to reach USD 253.75 billion by 2030, growing at a CAGR of 17.5% from 2025 to 2030. The demand for integrated AI infrastructure continues to grow as organizations focus on faster and more efficient AI inference deployment.

Enterprises prioritize platforms that unify computing power, storage, and software to streamline AI workflows. This integration simplifies management while boosting scalability and inference speed. Reducing setup time and operational complexity is key for handling real-time AI workloads. Privacy and security remain critical factors driving infrastructure choices. These trends are pushing broader adoption of comprehensive AI inference solutions.

There is a growing emphasis on supporting many AI models to address various business requirements. For instance, in March 2025, Oracle Corporation and NVIDIA Corporation announced a collaboration to integrate NVIDIA's AI software and hardware with Oracle Cloud Infrastructure, enabling faster deployment of agentic AI applications.

The collaboration offers over 160 AI tools, NIM microservices, and no-code blueprints for scalable enterprise AI solutions.

Enterprises require flexibility to deploy models suited to their specific tasks. Supporting a broad range of AI accelerators helps optimize performance across diverse hardware. This variety ensures compatibility with existing infrastructure and future technology. It enables organizations to choose the best tools for their unique AI workloads. This approach drives innovation by allowing seamless integration of new AI technologies as they emerge. For instance, in May 2024, Red Hat, a U.S.-based software company, launched the AI Inference Server, an enterprise solution designed to run generative AI models efficiently across hybrid cloud environments using any accelerator. This platform aims to deliver high-performance, scalable, and cost-effective AI inference with broad hardware and cloud compatibility.

The AI inference market is experiencing rapid growth driven by a strong need for real-time AI processing across many industries. Businesses are increasingly relying on AI to analyze data quickly and make instant decisions, which improves operational efficiency and customer experiences. Industries such as autonomous vehicles, healthcare, retail, and manufacturing are demanding faster, more accurate AI inference to support applications such as object detection, diagnostics, personalized recommendations, and automation. This rising demand pushes companies to develop and adopt more advanced inference technologies that deliver high performance with low latency. Moreover, the expansion of connected devices and the Internet of Things (IoT) fuels the requirement for immediate AI insights at the edge. As a result, investments in specialized AI chips and optimized software frameworks have surged. The market is expected to maintain its strong growth trajectory as AI inference becomes critical in digital transformation strategies worldwide.

## Global AI Inference Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends and opportunities in each of the sub-segments from 2018 to 2030. For this study, Grand View Research has segmented the global AI Inference market report in terms of memory, compute, application, end-use, and region.

### Memory Outlook (Revenue, USD Billion, 2018 - 2030)

#### HBM (High Bandwidth Memory)

DDR (Double Data Rate)

Compute Outlook (Revenue, USD Billion, 2018 - 2030)

GPU

CPU

FPGA

NPU

Others

Application Outlook (Revenue, USD Billion, 2018 - 2030)

Generative AI

Machine Learning

Natural Language Processing (NLP)

Computer Vision

Others

End Use Outlook (Revenue, USD Billion, 2018 - 2030)

BFSI

Healthcare

Retail and E-commerce

Automotive

IT and Telecommunications

Manufacturing

Security

Others

Regional Outlook (Revenue, USD Billion, 2018 - 2030)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Asia Pacific

China

Japan

India

Australia

South Korea

Latin America

Brazil

Middle East & Africa (MEA)

KSA

UAE

South Africa

### **Companies Mentioned**

Amazon Web Services, Inc.  
Arm Limited  
Advanced Micro Devices, Inc.  
Google LLC  
Intel Corporation  
Microsoft  
Mythic  
NVIDIA Corporation  
Qualcomm Technologies, Inc.  
Sophos Ltd

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