

AI Infrastructure Market to Cross USD 253.42 Billion at 27.3% CAGR by 2031 | Ever-Growing Demand for AI Solutions

AI Infrastructure Market Size, Share, Growth Drivers and Regional Analysis, Global Forecast 2024 - 2031

AUSTIN, TEXAS, UNITED STATES, June

13, 2024 /EINPresswire.com/ -- The

global [AI infrastructure Market Size](#) is

experiencing a surge, driven by the

increasing adoption of artificial

intelligence (AI) technologies across

various industries. This exponential

growth is Driven by the critical role AI

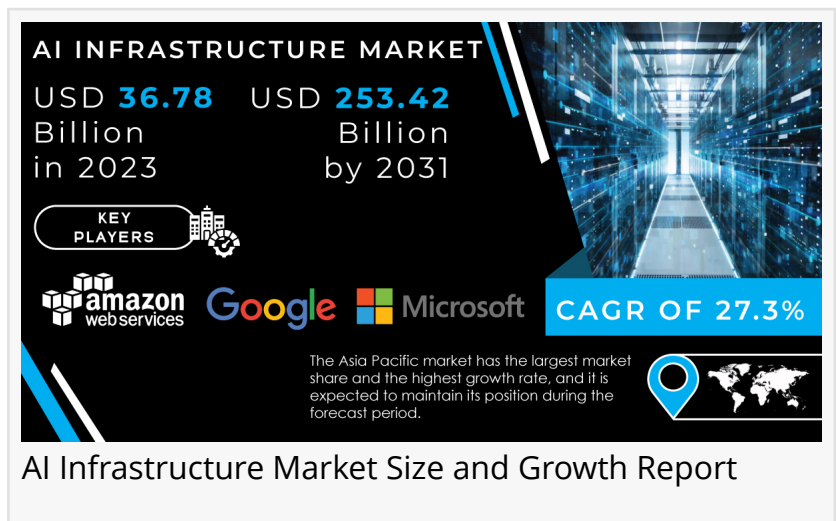
infrastructure plays in supporting

demanding AI workloads like data processing, training, and inference. The SNS Insider report

forecasts a promising future for the market, estimating a valuation of USD 253.42 billion by 2031.

This signifies a significant growth trajectory, with a CAGR of 27.3% anticipated over the forecast

period of 2024-2031.



The demand for AI infrastructure is Increasing with the,

-The volume of data generated from diverse sources is exploding. To harness the power of this data and leverage AI effectively, businesses require robust AI infrastructure for efficient processing and analysis.

-Continuous improvements in AI algorithms necessitate more powerful computing capabilities. AI infrastructure equipped with advanced hardware like GPUs and specialized AI processors caters to this growing demand.

-The increasing adoption of cloud-based AI platforms is driving the need for scalable and flexible AI infrastructure solutions. Cloud platforms offer easy access to powerful computing resources without the burden of on-premise hardware management.

-Sectors Such as healthcare, finance, and manufacturing are actively integrating AI into their operations. This integration necessitates investments in AI infrastructure to support tasks like drug discovery, fraud detection, and process automation.

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KEY PLAYERS:

- Amazon Web Services
- Google LLC
- IBM Corporation
- Microsoft Corporation
- Oracle Corporation
- Cisco Systems Inc
- Intel Corporation
- Micron Technology Inc
- Nvidia Corporation
- Samsung Electronics

Recent Developments

- October 2023, Futureverse and Alibaba Cloud partnered to introduce cloud computing services for the Jen Music AI platform, aiming to advance AI-powered music generation.
- September 2023, Tata Consultancy Services collaborated with NVIDIA to provide AI computing infrastructure and platforms, empowering Indian startups to develop AI solutions.
- March 2023, NVIDIA launched the DGX cloud service, granting enterprises access to its AI infrastructure and software for generative AI model training. This eliminates the need for complex on-premise setups.

KEY MARKET SEGMENTS:

BY DEPLOYMENT

- On-premises
- Cloud
- Hybrid

by Deployment Model, On-premises deployments currently hold the largest market share due to factors such as data security concerns, low latency requirements, and customization needs. The hybrid segment is expected to witness significant growth as it offers a cost-effective balance between on-premise control and cloud scalability.

BY TECHNOLOGY

- Deep Learning
- Machine Learning

by Technology, Machine learning Segment Dominates the market, driven by the vast amounts of data involved in AI projects. Advancements in hardware such as GPUs and machine learning

algorithms further Drive this segment's growth. Deep learning is the fastest-growing segment due to the development of powerful processors enabling faster and more complex model training.

BY OFFERING

- Hardware
- Software

BY FUNCTION

- Inference
- Training

BY END USER

- Government Organizations
- Cloud Service Providers
- Enterprises

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Impact of Global Events

A global economic slowdown could lead to budget cuts, potentially impacting investments in AI infrastructure projects. However, long-term AI adoption might still progress as businesses seek AI-driven solutions for cost optimization and efficiency gains.

Key Regional Developments

The Asia Pacific region holds the dominant market share due to the presence of highly populous countries like China and India. China, with its booming AI data center market, is expected to maintain its lead in the region. The Indian government's focus on AI development further fuels the regional market growth.

Key Takeaways for the AI Infrastructure Market

- The report highlights the significant growth potential of the AI infrastructure market, driven by the increasing adoption of AI solutions across industries.
- It identifies key factors such as data growth, advancements in AI algorithms, and cloud adoption as major growth drivers.
- The report analyses the dominance of specific segments like on-premise deployments and machine learning, while also exploring the rise of hybrid deployments and deep learning technologies.
- The report emphasizes the leading role of the Asia Pacific region, particularly China and India, in shaping the future of the AI infrastructure market.

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Contact us:

Akash Anand

Head of Business Development & Strategy

info@snsinsider.com

Phone: +1-415-230-0044 (US) | +91-7798602273 (IND)

Akash Anand

SNS Insider

+1 415-230-0044

info@snsinsider.com

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