

AI Infrastructure Market worth \$165.40 billion by 2030, growing at a CAGR of 23.93% - Exclusive Report by 360iResearch

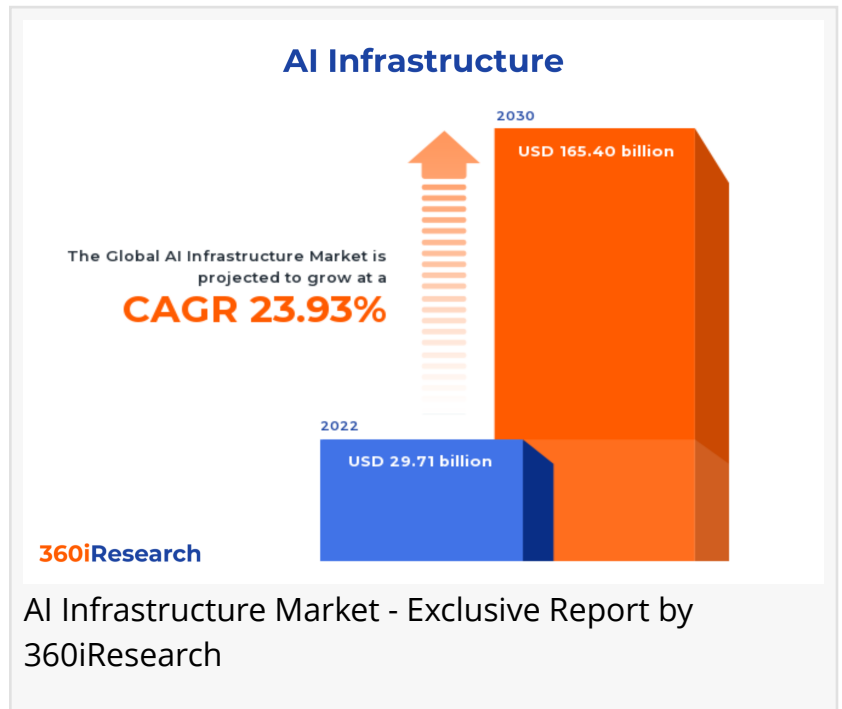
The Global AI Infrastructure Market to grow from USD 29.71 billion in 2022 to USD 165.40 billion by 2030, at a CAGR of 23.93%.

PUNE, MAHARASHTRA, INDIA, November 7, 2023 /EINPresswire.com/ -- The "[AI Infrastructure Market](#) by Offering (Hardware, Services, Software), Deployment (On-Cloud, On-Premise), End-Users - Global Forecast 2023-2030" report has been added to 360iResearch.com's offering.

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The AI infrastructure market refers to the ecosystem of hardware, software, and services that support the deployment, scaling, and management of artificial intelligence (AI) applications and machine learning (ML) models for various end-use industries. The AI infrastructure includes specialized processors such as GPUs, TPUs, ASICs, memory and storage solutions, networking equipment, software platforms for model training, and consulting services to facilitate AI adoption. The increasing need for high-performance computing platforms to process large datasets and the rising edge-to-cloud AI infrastructure worldwide are surging the demand for AI Infrastructure solutions. Additionally, the government initiatives promoting smart manufacturing and Industry 4.0 facilities contribute to market growth. However, the design complexities, deployment, and maintenance issues may limit the adoption of AI infrastructure solutions. The vulnerability to cyberattacks and data breach incidents poses challenges to the market.



Moreover, the technological advancements and integration of AI infrastructure with 5G technology is expected to facilitate a new era of ultra-low latency and high-bandwidth applications, opening up additional opportunities for the market.

Deployment: Increasing utilization of the cloud-based AI infrastructure focusing on the agility and swift deployment of AI-powered services

Cloud-based AI infrastructure offers a flexible and scalable solution that allows organizations to access advanced AI capabilities without the need for large-scale investments in hardware and maintenance. Hybrid AI infrastructure combines the advantages of cloud and on-premise solutions, enabling organizations to optimize their deployments based on specific requirements while maintaining control over sensitive data. On-premise deployment is preferred over cloud-based solutions when organizations require maximum control over their AI infrastructure or have stringent security requirements.

End-Users: Rising deployment of the AI infrastructure into the enterprises and Government entities

Cloud Service Providers (CSPs) provide seamless and scalable AI infrastructures as they cater to a wide range of clients with varying demands for processing power and storage capabilities. Enterprises across various industries leverage AI infrastructure for purposes such as data analytics, automation, and customer service improvement through chatbots and virtual assistants to select a suitable AI infrastructure solution. Government entities utilize AI infrastructure for various applications such as public safety, healthcare systems management, and traffic management, among others, for enhanced security & compliance, cost-effectiveness, and interoperability.

Offering: Innovative solution and services catering to specific needs of the AI ecosystem

The AI hardware, such as specialized processors and high-speed & scalable storage solutions, are crucial for efficient AI model training and inference performance. Organizations with demanding computational requirements prefer CPU & GPU-based systems due to their parallel processing capabilities that provide shorter training times for machine learning models. Services in AI infrastructure include consulting support on deploying AI solutions, ensuring maintainability & scalability model management services for monitoring performance. The training models using cloud-based infrastructures are implemented to maximize resource utilization. Data labeling & annotation services are essential for supervised learning algorithms to maintain privacy & security standards. A diverse range of software tools, such as frameworks, data preparation tools, and model deployment platforms, are available for designing, developing, and deploying AI solutions to provide a high-level interface for complex operations.

Regional Insights:

The Americas represent a highly developed infrastructure with significant growth in investments associated with AI research and development and the presence of significant global market players. The United States, Canada, and Mexico are major countries with rising consumer demands, boosting the adoption of AI infrastructure solutions. In the European Union, countries

such as France and Germany are spearheading efforts to increase investments in research and development to develop AI technology. Government initiatives and policies play an essential role in driving AI adoption across various industries in the Asia-Pacific region. Governments in countries including China, Japan, and India have recognized the importance of AI for future economic growth and are heavily investing in research and development (R&D) programs to boost innovation. Additionally, the thriving startup ecosystem contributes significantly to the market growth.

FPNV Positioning Matrix:

The FPNV Positioning Matrix is essential for assessing the AI Infrastructure Market. It provides a comprehensive evaluation of vendors by examining key metrics within Business Strategy and Product Satisfaction, allowing users to make informed decisions based on their specific needs. This advanced analysis then organizes these vendors into four distinct quadrants, which represent varying levels of success: Forefront (F), Pathfinder (P), Niche (N), or Vital(V).

Market Share Analysis:

The Market Share Analysis offers an insightful look at the current state of vendors in the AI Infrastructure Market. By comparing vendor contributions to overall revenue, customer base, and other key metrics, we can give companies a greater understanding of their performance and what they are up against when competing for market share. The analysis also sheds light on just how competitive any given sector is about accumulation, fragmentation dominance, and amalgamation traits over the base year period studied.

Key Company Profiles:

The report delves into recent significant developments in the AI Infrastructure Market, highlighting leading vendors and their innovative profiles. These include Accenture PLC, Advanced Micro Devices Inc., Amazon Web Services, Inc., Appinventiv Technology Pvt. Ltd., Cerebras Systems, Cisco Systems, Inc., DataRobot, Inc., Fortinet, Inc., G-Core Labs S.A., Google LLC by Alphabet Inc., Graphcore Limited, Groq, Inc., Hailo Technologies Ltd., Hewlett Packard Enterprise Development LP, Huawei Technologies Co., Ltd., Intel Corporation, International Business Machines Corporation, Lenovo Group Limited, Lightmatter, Inc., Meta Platforms, Inc., Micron Technology Inc., Microsoft Corporation, Mythic, Inc., NEC Corporation, Nutanix, Inc., NVIDIA Corporation, OpenAI OpCo, LLC, Oracle Corporation, Pure Storage, Inc., Salesforce, Inc., SambaNova Systems, Inc, Samsung Electronics Co., Ltd., SAP SE, SenseTime Group Inc., Siemens AG, Sony Group Corporation, Synopsys Inc., and Toshiba Corporation.

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Market Segmentation & Coverage:

This research report categorizes the AI Infrastructure Market in order to forecast the revenues and analyze trends in each of following sub-markets:

Based on Offering, market is studied across Hardware, Services, and Software. The Hardware is further studied across CPU & GPU, Memory & Storage, and Networking Equipment. The Services is further studied across Data Ingestion & Integration, Data Preprocessing & Feature Engineering, Data Storage & Management, Machine Learning Frameworks & Libraries, Model Deployment & Serving, Model Training & Validation, Monitoring & Maintenance, and Security & Compliance. The Hardware commanded largest market share of 44.65% in 2022, followed by Software.

Based on Deployment, market is studied across On-Cloud and On-Premise. The On-Premise commanded largest market share of 74.16% in 2022, followed by On-Cloud.

Based on End-Users, market is studied across Cloud Service Providers, Enterprises, and Government. The Enterprises commanded largest market share of 53.76% in 2022, followed by Cloud Service Providers.

Based on Region, market is studied across Americas, Asia-Pacific, and Europe, Middle East & Africa. The Americas is further studied across Argentina, Brazil, Canada, Mexico, and United States. The United States is further studied across California, Florida, Illinois, New York, Ohio, Pennsylvania, and Texas. The Asia-Pacific is further studied across Australia, China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, Thailand, and Vietnam. The Europe, Middle East & Africa is further studied across Denmark, Egypt, Finland, France, Germany, Israel, Italy, Netherlands, Nigeria, Norway, Poland, Qatar, Russia, Saudi Arabia, South Africa, Spain, Sweden, Switzerland, Turkey, United Arab Emirates, and United Kingdom. The Americas commanded largest market share of 38.77% in 2022, followed by Europe, Middle East & Africa.

Key Topics Covered:

1. Preface
2. Research Methodology
3. Executive Summary
4. Market Overview
5. Market Insights
6. AI Infrastructure Market, by Offering
7. AI Infrastructure Market, by Deployment
8. AI Infrastructure Market, by End-Users
9. Americas AI Infrastructure Market
10. Asia-Pacific AI Infrastructure Market
11. Europe, Middle East & Africa AI Infrastructure Market
12. Competitive Landscape

13. Competitive Portfolio

14. Appendix

The report provides insights on the following pointers:

1. Market Penetration: Provides comprehensive information on the market offered by the key players
2. Market Development: Provides in-depth information about lucrative emerging markets and analyzes penetration across mature segments of the markets
3. Market Diversification: Provides detailed information about new product launches, untapped geographies, recent developments, and investments
4. Competitive Assessment & Intelligence: Provides an exhaustive assessment of market shares, strategies, products, certification, regulatory approvals, patent landscape, and manufacturing capabilities of the leading players
5. Product Development & Innovation: Provides intelligent insights on future technologies, R&D activities, and breakthrough product developments

The report answers questions such as:

1. What is the market size and forecast of the AI Infrastructure Market?
2. Which are the products/segments/applications/areas to invest in over the forecast period in the AI Infrastructure Market?
3. What is the competitive strategic window for opportunities in the AI Infrastructure Market?
4. What are the technology trends and regulatory frameworks in the AI Infrastructure Market?
5. What is the market share of the leading vendors in the AI Infrastructure Market?
6. What modes and strategic moves are considered suitable for entering the AI Infrastructure Market?

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