

AI in IoT Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Technology (Machine Learning, Deep Learning, Natural Language Processing), By Industry Vertical (BFSI, IT and Telecom, Retail and E-commerce, Manufacturing, Healthcare, Energy and Utilities, Transportation and Mobility, Others), By Region, By Competition, 2020-2030F

Market Report | 2025-11-27 | 181 pages | TechSci Research

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Report description:

Market Overview

The Global AI in IoT Market, valued at USD 63.17 Billion in 2024, is projected to experience a CAGR of 8.90% to reach USD 105.36 Billion by 2030. Artificial Intelligence in IoT (AIoT) integrates AI with Internet of Things infrastructure, enabling connected devices to autonomously collect, analyze, and act on data without human intervention. Main market drivers include the demand for enhanced operational efficiency and cost savings through automation, exemplified by predictive maintenance and optimized resource management. The increasing volume of data from proliferating smart devices further necessitates AI for real-time processing and actionable insights.

Key Market Drivers

The demand for real-time data processing and advanced analytics stands as a primary driver for the global AI in IoT market. AI in IoT facilitates immediate analysis of extensive datasets from connected devices, transforming raw data into actionable intelligence at the edge and in cloud environments. This enables quicker, more informed decision-making, essential for applications like anomaly detection, proactive risk management, and dynamic resource optimization. According to Zilch, in April 2024, the company announced an extended collaboration with Amazon Web Services to accelerate AI innovation across its offerings, leveraging AWS's AI and machine learning services like Amazon SageMaker and Amazon Bedrock.

Key Market Challenges

The complexity of integrating artificial intelligence with diverse existing Internet of Things infrastructures presents a significant

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impediment to the growth of the global AI in IoT market. Many legacy IoT systems lack the computational capacity or architectural flexibility required for advanced AI applications. This necessitates extensive hardware and software modifications, creating a substantial barrier for organizations seeking to leverage AIoT solutions. The absence of standardized protocols and the prevalence of proprietary technologies across various IoT platforms further contribute to widespread interoperability issues.

Key Market Trends

Distributed Edge AI Processing represents a pivotal trend, shifting AI computations closer to the data source on IoT devices or local edge infrastructure. This decentralization dramatically minimizes latency, enabling real-time decision-making essential for critical applications such as autonomous industrial systems and responsive operational control. In manufacturing, processing data at the edge facilitates immediate anomaly detection and allows for rapid, proactive adjustments to machinery, preventing costly downtime.

Key Market Players

- [] Microsoft Corporation
- [] Amazon.com, Inc.
- [] Alphabet Inc.
- [] Apple Inc.
- [] IBM Corporation
- [] Siemens AG
- [] Samsung Electronics Co., Ltd.
- [] Huawei Technologies Co., Ltd.
- [] Intel Corporation
- [] SAP SE

Report Scope:

In this report, the Global AI in IoT Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

- [] AI in IoT Market, By Technology:

- o Machine Learning
- o Deep Learning
- o Natural Language Processing

- [] AI in IoT Market, By Industry Vertical:

- o BFSI
- o IT and Telecom
- o Retail and E-commerce
- o Manufacturing
- o Healthcare
- o Energy and Utilities
- o Transportation and Mobility
- o Others

- [] AI in IoT Market, By Region:

- o North America
 - [] United States
 - [] Canada
 - [] Mexico
- o Europe
 - [] France
 - [] United Kingdom
 - [] Italy
 - [] Germany

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- Spain
- o Asia Pacific
- China
- India
- Japan
- Australia
- South Korea
- o South America
- Brazil
- Argentina
- Colombia
- o Middle East & Africa
- South Africa
- Saudi Arabia
- UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the Global AI in IoT Market.

Available Customizations:

Global AI in IoT Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

-□Detailed analysis and profiling of additional market players (up to five).

Table of Contents:

1. Product Overview
 - 1.1. Market Definition
 - 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations
2. Research Methodology
 - 2.1. Objective of the Study
 - 2.2. Baseline Methodology
 - 2.3. Key Industry Partners
 - 2.4. Major Association and Secondary Sources
 - 2.5. Forecasting Methodology
 - 2.6. Data Triangulation & Validation
 - 2.7. Assumptions and Limitations
3. Executive Summary
 - 3.1. Overview of the Market
 - 3.2. Overview of Key Market Segmentations
 - 3.3. Overview of Key Market Players
 - 3.4. Overview of Key Regions/Countries
 - 3.5. Overview of Market Drivers, Challenges, Trends
4. Voice of Customer
5. Global AI in IoT Market Outlook

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- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Technology (Machine Learning, Deep Learning, Natural Language Processing)
 - 5.2.2. By Industry Vertical (BFSI, IT and Telecom, Retail and E-commerce, Manufacturing, Healthcare, Energy and Utilities, Transportation and Mobility, Others)
 - 5.2.3. By Region
 - 5.2.4. By Company (2024)
- 5.3. Market Map
- 6. North America AI in IoT Market Outlook
 - 6.1. Market Size & Forecast
 - 6.1.1. By Value
 - 6.2. Market Share & Forecast
 - 6.2.1. By Technology
 - 6.2.2. By Industry Vertical
 - 6.2.3. By Country
 - 6.3. North America: Country Analysis
 - 6.3.1. United States AI in IoT Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Technology
 - 6.3.1.2.2. By Industry Vertical
 - 6.3.2. Canada AI in IoT Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Technology
 - 6.3.2.2.2. By Industry Vertical
 - 6.3.3. Mexico AI in IoT Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Technology
 - 6.3.3.2.2. By Industry Vertical
- 7. Europe AI in IoT Market Outlook
 - 7.1. Market Size & Forecast
 - 7.1.1. By Value
 - 7.2. Market Share & Forecast
 - 7.2.1. By Technology
 - 7.2.2. By Industry Vertical
 - 7.2.3. By Country
 - 7.3. Europe: Country Analysis
 - 7.3.1. Germany AI in IoT Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast

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- 7.3.1.2.1. By Technology
- 7.3.1.2.2. By Industry Vertical
- 7.3.2. France AI in IoT Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Technology
 - 7.3.2.2.2. By Industry Vertical
- 7.3.3. United Kingdom AI in IoT Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Technology
 - 7.3.3.2.2. By Industry Vertical
- 7.3.4. Italy AI in IoT Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Technology
 - 7.3.4.2.2. By Industry Vertical
- 7.3.5. Spain AI in IoT Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Technology
 - 7.3.5.2.2. By Industry Vertical
- 8. Asia Pacific AI in IoT Market Outlook
 - 8.1. Market Size & Forecast
 - 8.1.1. By Value
 - 8.2. Market Share & Forecast
 - 8.2.1. By Technology
 - 8.2.2. By Industry Vertical
 - 8.2.3. By Country
 - 8.3. Asia Pacific: Country Analysis
 - 8.3.1. China AI in IoT Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Technology
 - 8.3.1.2.2. By Industry Vertical
 - 8.3.2. India AI in IoT Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Technology
 - 8.3.2.2.2. By Industry Vertical
 - 8.3.3. Japan AI in IoT Market Outlook

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- 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
- 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Technology
 - 8.3.3.2.2. By Industry Vertical
- 8.3.4. South Korea AI in IoT Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Technology
 - 8.3.4.2.2. By Industry Vertical
- 8.3.5. Australia AI in IoT Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Technology
 - 8.3.5.2.2. By Industry Vertical
- 9. Middle East & Africa AI in IoT Market Outlook
 - 9.1. Market Size & Forecast
 - 9.1.1. By Value
 - 9.2. Market Share & Forecast
 - 9.2.1. By Technology
 - 9.2.2. By Industry Vertical
 - 9.2.3. By Country
 - 9.3. Middle East & Africa: Country Analysis
 - 9.3.1. Saudi Arabia AI in IoT Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Technology
 - 9.3.1.2.2. By Industry Vertical
 - 9.3.2. UAE AI in IoT Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Technology
 - 9.3.2.2.2. By Industry Vertical
 - 9.3.3. South Africa AI in IoT Market Outlook
 - 9.3.3.1. Market Size & Forecast
 - 9.3.3.1.1. By Value
 - 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Technology
 - 9.3.3.2.2. By Industry Vertical
- 10. South America AI in IoT Market Outlook
 - 10.1. Market Size & Forecast
 - 10.1.1. By Value
 - 10.2. Market Share & Forecast

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- 10.2.1. By Technology
- 10.2.2. By Industry Vertical
- 10.2.3. By Country
- 10.3. South America: Country Analysis
 - 10.3.1. Brazil AI in IoT Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value
 - 10.3.1.2. Market Share & Forecast
 - 10.3.1.2.1. By Technology
 - 10.3.1.2.2. By Industry Vertical
 - 10.3.2. Colombia AI in IoT Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Technology
 - 10.3.2.2.2. By Industry Vertical
 - 10.3.3. Argentina AI in IoT Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Technology
 - 10.3.3.2.2. By Industry Vertical
- 11. Market Dynamics
 - 11.1. Drivers
 - 11.2. Challenges
- 12. Market Trends & Developments
 - 12.1. Merger & Acquisition (If Any)
 - 12.2. Product Launches (If Any)
 - 12.3. Recent Developments
- 13. Global AI in IoT Market: SWOT Analysis
- 14. Porter's Five Forces Analysis
 - 14.1. Competition in the Industry
 - 14.2. Potential of New Entrants
 - 14.3. Power of Suppliers
 - 14.4. Power of Customers
 - 14.5. Threat of Substitute Products
- 15. Competitive Landscape
 - 15.1. Microsoft Corporation
 - 15.1.1. Business Overview
 - 15.1.2. Products & Services
 - 15.1.3. Recent Developments
 - 15.1.4. Key Personnel
 - 15.1.5. SWOT Analysis
 - 15.2. Amazon.com, Inc.
 - 15.3. Alphabet Inc.
 - 15.4. Apple Inc.
 - 15.5. IBM Corporation

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- 15.6. Siemens AG
- 15.7. Samsung Electronics Co., Ltd.
- 15.8. Huawei Technologies Co., Ltd.
- 15.9. Intel Corporation
- 15.10. SAP SE
- 16. Strategic Recommendations
- 17. About Us & Disclaimer

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