

Artificial Intelligence (AI) Market Study

About Us

Straits Research Pvt Ltd is a leading market research firm offering comprehensive insights on market demand, trends, growth prospects and regional analysis. With over 35 years of combined experience, we provide premium qualitative insights on consumer preferences, regulatory landscape, and technological advancements along with quantitative insights on industry market size, global economic scenario and revenue opportunities. These reports are backed by high-quality data sourced from primary sources and large secondary databases. With analyst perspectives and insights included in every report, Straits Research delivers comprehensive market intelligence and detailed analysis to help clients make informed decisions.

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Regional Overview

Company Profiles

Advanced Micro Devices

Aicure, Arm Limited

Atomwise, Inc.

Ayasdi Ai LLC

Baidu, Inc.

Clarifai, Inc

Cyrcadia Health

Enlitic, Inc.

Google LLC

Hyperverge, Inc.

International Business Machines Corporation

IBM Watson Health

Intel Corporation

Lifegraph

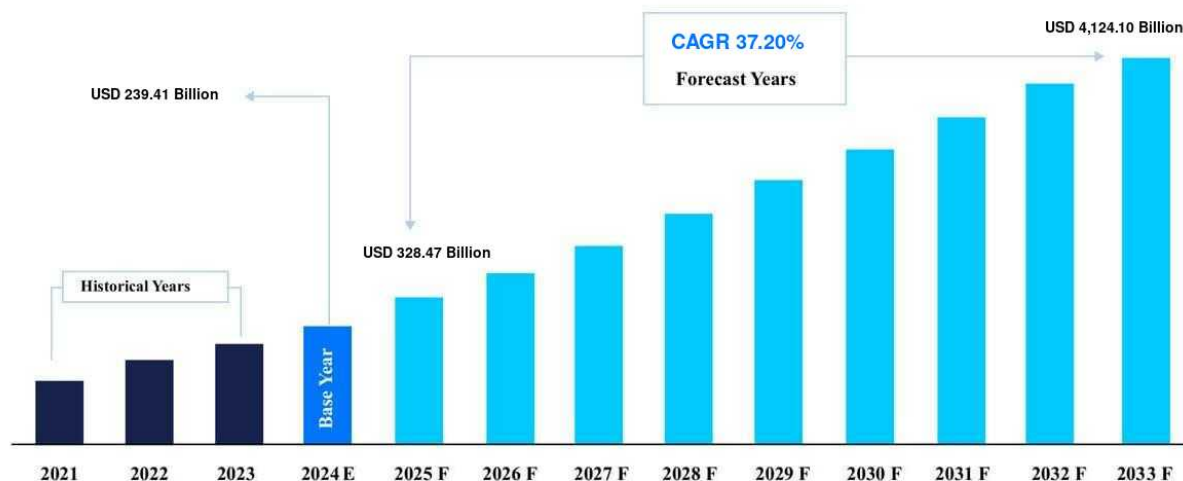
Note: More company profiles available on full reports.

Top 5 Company Market Share



Total
38%

Top 5 company market share



Source: Straits Research

CAGR 37.20%

Forecast Years

USD 239.41 Billion

USD 328.47 Billion

USD 4,124.10 Billion

Historical Years

Base Year

Emerging Countries

United States

Germany

China

Emerging Companies

Ayasdi Ai LLC

Baidu, Inc

Google LLC

Market Trends

Growth Trends

- Increasing adoption of AI in industries such as healthcare, automotive, and finance
- Growth of AI in emerging markets
- The increasing importance of AI in data analysis and decision making
- Development of AI technologies like machine learning, deep learning, and neural networks
- Growth of AI in the Internet of Things (IoT) and blockchain technologies
- The rise of AI-powered chatbots and virtual assistants
- Growth in AI research and development
- Increasing demand for AI hardware like AI-powered chips

Factors considered while calculating market size and share

- The size of the existing AI market and prediction for growth
- Total revenue generated by all companies in the AI industry
- The extent of AI adoption across different industries
- The global economic impact of AI
- Number of AI startups and their market capitalization
- Growth of funding and investment in the AI sector
- Market potential and barriers for entry
- Geographical penetration of AI

Key Market Indicators

- Total global spending on AI systems
- Growth rate of AI market
- Number of AI specialists and professionals
- The degree of AI integration in different sectors
- Market share of leading AI companies
- Patent trends in AI
- Technological innovation in the AI market
- Investment trends in AI startups
- Consumer attitudes and adoption towards AI

Substantial amount of demonstrative data needed

The need for a large amount of data to train AI systems for character and image recognition is one of the major issues limiting industry growth. Furthermore, the problem of data traceability is made worse by the stacking of such a large amount of data. Artificial intelligence is used by businesses like Facebook and Google, Inc. in image recognition applications, which need access to many data. In addition, the information required to identify tumors in X-rays is scarce in the healthcare industry. Making effective decisions with the help of available data is the main issue in artificial intelligence due to the lack of data availability. Additionally, the method of training networks with less data is still being developed and is anticipated to go commercial in the following 10 to 12 years. The lack of established standards for data collection and requirements is another issue with artificial intelligence.

Market Trends

Growing demand for high-performance products

Most companies that produce hardware parts like CPUs, ASICs, FPGAs, and GPUs are in the software sector now. FPGAs are now compatible with sophisticated software practices and available to those who organize and construct algorithm models thanks to recent trends in design tools. Artificial intelligence hardware-based solutions are now available to address issues with power consumption, sluggish processing, and inefficiency. Additionally, as the global artificial intelligence (AI) market matures, a new business model must be developed through predictive, effective automation and scalable parallel processing capabilities. The demand for lower power and higher performance in end-user applications led to the need for hardware-based artificial intelligence products. Very few businesses have developed these components over the past few years. However, vendors like IBM Corporation and Intel Corporation have begun producing artificial intelligence chipsets to achieve high performance in scaling dynamic processes concurrently to gain a competitive advantage.

Potential research and development into ai systems

Layers of algorithms are used by artificial intelligence to process data, comprehend spoken language, and recognize objects visually. These algorithms are utilized for automated computation, reasoning, and data processing. The need to enhance these algorithms to offer better and more effective solutions for various end-use applications has grown.

Growing government efforts and investments to use ai technology

The government has boosted its investments in AI and related technologies due to their growing popularity and the ease with which they may be implemented. Governmental agencies, public sector organizations, and NGOs have started allocating funds for AI-based pilot programs for various applications, including traffic management, road and public safety, and digitization of government records. For instance, located in Hyderabad, INAI (Intel AI) was established in October 2020 thanks to a joint effort of the Telangana government, Intel India, the International Institute of Information Technology, Hyderabad (IIIT-H), and the Public Health Foundation of India (PHFI). The center will prioritize challenges in India's healthcare and smart mobility sectors.

Market Segments

By Data Type

Image is the largest sub-segment, holding around 28-30% market share. Image data dominates due to its widespread use in computer vision applications such as facial recognition and autonomous driving.



28-30%

Image

By Solutions

Software is the largest sub-segment, holding around 38-40% market share. It dominates due to its scalability, versatility, and critical role in AI deployment across various industries.



38-40%

Software

By Technology

Machine learning commands a significant share, driving AI innovation through predictive models and surpassing deep learning, natural language processing, and machine vision globally.



XX%

Machine learning

Market Segments

By End-User

Healthcare captures a significant share, leveraging AI for diagnostics and treatment innovation, leading ahead of BFSI, manufacturing, and other sectors in the AI market.



XX%

Healthcare

Regional Overview

North America

North America holds around 32-35% of the market share, with the United States being the largest country, accounting for approximately 24-26% of the global share. Tech giants and substantial R&D investments drive the region's dominance.



United States Market Share

Europe

Europe holds around 23-25% of the market share, with Germany being the largest country, accounting for approximately 5-7% of the global share. The region's strong industrial base and AI policies contribute to increased adoption.



Germany Market Share

APAC

Asia-Pacific holds around 27-30% of the market share, with China being the largest country. Rapid digitalization and strong government support are key factors fueling the region's growth.



China Market Share

Regional Overview

Middle East and Africa

The Middle East and Africa hold a smaller market share, with the UAE being the largest country. Emerging tech hubs are supporting the market's expansion.



XX%

UAE Market Share

LATAM

Latin America holds a smaller market share, with Brazil being the largest country. Gradual digital transformation is driving growth in the region.



XX%

Brazil Market Share

Company Profiles

Companies	Websites	Headquarters	Establisheds	Key Executives	Revenues
Advanced Micro Devices	https://www.amd.com/en.html	Santa Clara, California, USA	1969	Lisa Su, CEO	~\$17 billion
Google LLC	https://www.google.com/	Mountain View, California, USA	1998	Sundar Pichai (CEO)	\$307 billion
Clarifai, Inc	https://www.clarifai.com/	New York, USA	2013	Matthew Zeiler (CEO)	~\$50 million
Atomwise, Inc	https://www.atomwise.com/	San Francisco, California, USA	2012	Abraham Heifets (CEO)	~\$20 million
Enlitic, Inc	https://enlitic.com/	San Francisco, California, USA	2014	Michael Sistenich (CEO)	~\$14 million

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