

Global AI in ICT (Information and Communications Technology) Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G945962CE926EN.html>

Date: January 2026

Pages: 155

Price: US\$ 4,480.00 (Single User License)

ID: G945962CE926EN

Abstracts

The global AI in ICT (Information and Communications Technology) market size is expected to reach \$ 206918 million by 2032, rising at a market growth of 14.8% CAGR during the forecast period (2026-2032).

AI in ICT refers to the integration of artificial intelligence technologies?such as machine learning, deep learning, natural language processing, and intelligent automation?into information and communications technology infrastructure, platforms, and services. It focuses on enhancing how data is transmitted, processed, managed, and utilized across cloud computing, telecom networks, data centers, enterprise IT systems, and edge devices. Typical applications include intelligent network optimization, traffic prediction, automated IT operations (AIOps), cybersecurity analytics, cloud resource orchestration, intelligent customer interaction systems, and enterprise data intelligence platforms. Unlike vertical AI markets such as healthcare or finance, AI in ICT serves as a horizontal enabling layer, providing foundational intelligence capabilities that support digital transformation across multiple industries.

The industry chain of AI in ICT is relatively clear. Upstream consists of semiconductor suppliers, hardware manufacturers, cloud infrastructure providers, and data sources. Midstream players are AI platform developers, ICT solution providers, and system integrators that embed AI into networks, data centers, and enterprise IT systems. Downstream customers include telecom operators, cloud service providers, large enterprises, public-sector organizations, and industrial users that deploy AI-enabled ICT infrastructure to improve efficiency, reliability, and scalability. Strategic partnerships between chip vendors, cloud providers, and telecom operators are a defining feature of this ecosystem.

In terms of profitability, AI in ICT generally demonstrates strong margin potential. Software- and cloud-based AI platforms typically achieve gross margins of

approximately 60-80%, driven by scalability and recurring revenue. Hardware-centric AI infrastructure solutions show lower margins, often in the 35-55% range, but benefit from large deployment volumes and long-term service contracts. Key market trends include the rapid expansion of cloud and edge AI, AI-driven autonomous networks, rising demand for AIOps and cybersecurity analytics, and increasing convergence between AI, cloud computing, and next-generation communication technologies.

This report studies the global AI in ICT (Information and Communications Technology) demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI in ICT (Information and Communications Technology), and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of AI in ICT (Information and Communications Technology) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global AI in ICT (Information and Communications Technology) total market, 2021-2032, (USD Million)

Global AI in ICT (Information and Communications Technology) total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: AI in ICT (Information and Communications Technology) total market, key domestic companies, and share, (USD Million)

Global AI in ICT (Information and Communications Technology) revenue by player, revenue and market share 2021-2026, (USD Million)

Global AI in ICT (Information and Communications Technology) total market by Type, CAGR, 2021-2032, (USD Million)

Global AI in ICT (Information and Communications Technology) total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global AI in ICT (Information and Communications Technology) market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Amazon (AWS), Google, Microsoft, IBM, Baidu, Meta, NVIDIA, Intel, Samsung Electronics, HPE, etc. This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world AI in ICT (Information and Communications Technology) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global AI in ICT (Information and Communications Technology) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI in ICT (Information and Communications Technology) Market, Segmentation by Type:

Software

Services

Global AI in ICT (Information and Communications Technology) Market, Segmentation by Deployment & Architecture Model:

On-premise

Cloud-native AI Platforms

Others

Global AI in ICT (Information and Communications Technology) Market, Segmentation by ICT Infrastructure Layer:

Network Layer AI

Compute & Data Center AI

Cloud & Edge AI Infrastructure

Device & Endpoint AI

Others

Global AI in ICT (Information and Communications Technology) Market, Segmentation by Application:

Natural Language Processing

Machine Perception

Data Mining

Motion and Manipulation

Companies Profiled:

Amazon (AWS)

Google

Microsoft

IBM

Baidu

Meta

NVIDIA

Intel

Samsung Electronics

HPE

Fujitsu

Siemens

AT&T

Hancom Inc.

General Vision

H2O.ai

BigML

Diffbot

Digital Reasoning Systems

DataRobot

CognitiveScale

Fair Isaac (FICO)

Key Questions Answered

1. How big is the global AI in ICT (Information and Communications Technology) market?

2. What is the demand of the global AI in ICT (Information and Communications Technology) market?
3. What is the year over year growth of the global AI in ICT (Information and Communications Technology) market?
4. What is the total value of the global AI in ICT (Information and Communications Technology) market?
5. Who are the Major Players in the global AI in ICT (Information and Communications Technology) market?
6. What are the growth factors driving the market demand?

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