

# Global Artificial Intelligence or Machine Learning (AI/ML) Medical Device Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Artificial Intelligence or Machine Learning (AI/ML) Medical Device market size is expected to reach \$ 49715 million by 2032, rising at a market growth of 18.4% CAGR during the forecast period (2026-2032).

Artificial Intelligence or Machine Learning (AI/ML) Medical Devices refer to regulated medical hardware systems that integrate AI/ML algorithms to support clinical decision-making, automate measurement, or guide therapy. Unlike pure software tools, these products are typically delivered as an integrated device (e.g., imaging equipment with embedded AI, bedside monitoring devices, AI-enabled wearables, or robotic/therapeutic systems) and must meet medical device compliance requirements. Core value is generated through improved diagnostic accuracy, faster workflow, earlier detection, and more standardized clinical outcomes, especially in high-volume settings such as radiology, ophthalmology, cardiology, and ICU monitoring.

Gross margin profiles are generally attractive compared with traditional hardware-only medical devices, because AI features enable premium pricing and recurring revenue. Hardware-heavy products (e.g., imaging systems, robots) typically show mid-level gross margins driven by BOM cost and manufacturing complexity, while AI-enabled monitoring devices and wearables can reach higher margins through scale manufacturing and subscription add-ons. The highest margins are often achieved when vendors monetize software updates, per-use analytics, or multi-year service contracts, although margins may be diluted by clinical validation costs, post-market surveillance, and regulatory maintenance for model updates.

Key market dynamics include rapid adoption in workflow-intensive departments, rising demand for early screening and chronic disease management, and policy-driven incentives for efficiency and quality control. Competitive differentiation increasingly depends on real-world clinical evidence, data access, interpretability, cybersecurity, and

the ability to manage ?locked? vs. adaptive learning under regulatory frameworks. Over the next few years, the market will likely shift from single-task AI modules toward multi-modal, multi-disease platforms, while partnerships between device OEMs, hospitals, and AI developers accelerate commercialization and global deployment.

This report studies the global Artificial Intelligence or Machine Learning (AI/ML) Medical Device demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Artificial Intelligence or Machine Learning (AI/ML) Medical Device, 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 Artificial Intelligence or Machine Learning (AI/ML) Medical Device that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Artificial Intelligence or Machine Learning (AI/ML) Medical Device total market, 2021-2032, (USD Million)

Global Artificial Intelligence or Machine Learning (AI/ML) Medical Device total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Artificial Intelligence or Machine Learning (AI/ML) Medical Device total market, key domestic companies, and share, (USD Million)

Global Artificial Intelligence or Machine Learning (AI/ML) Medical Device revenue by player, revenue and market share 2021-2026, (USD Million)

Global Artificial Intelligence or Machine Learning (AI/ML) Medical Device total market by Type, CAGR, 2021-2032, (USD Million)

Global Artificial Intelligence or Machine Learning (AI/ML) Medical Device total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Artificial Intelligence or Machine Learning (AI/ML) Medical Device 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 GE HealthCare Technologies, Siemens Healthineers, Philips Healthcare (AI-enabled solutions), Canon Medical Systems (Altivity AI), Aidoc, Viz.ai, Lunit, Cleerly, PathAI, Tempus (AI Oncology), 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 Artificial Intelligence or Machine Learning (AI/ML) Medical Device 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 Artificial Intelligence or Machine Learning (AI/ML) Medical Device Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Artificial Intelligence or Machine Learning (AI/ML) Medical Device Market, Segmentation by Type:

System Or Hardware

Software-as-a Medical Devices

Global Artificial Intelligence or Machine Learning (AI/ML) Medical Device Market, Segmentation by Deployment Architecture:

Edge/On-device AI

On-premise Server

Cloud AI

Others

Global Artificial Intelligence or Machine Learning (AI/ML) Medical Device Market,  
Segmentation by Clinical Use Type:

Radiology AI

Ophthalmology AI

Digital Pathology AI

Cardiology AI

Others

Global Artificial Intelligence or Machine Learning (AI/ML) Medical Device Market,  
Segmentation by Application:

Medical Imaging Analysis

Disease Prediction and Diagnosis

Patient Monitoring and Care

Medical Device Performance Optimization

Therapeutic Progress Tracking

### **Companies Profiled:**

GE HealthCare Technologies

Siemens Healthineers

Philips Healthcare (AI-enabled solutions)

Canon Medical Systems (Altivity AI)

Aidoc

Viz.ai

Lunit

Cleerly

PathAI

Tempus (AI Oncology)

Quibim

Digital Diagnostics (LumineticsCore)

Eyenuk (EyeArt)

Optomed / AEYE Health

VUNO

Infervision

Rad AI

AliveCor

Airdoc Technology

Digital Diagnostics

Eyenuk

### Key Questions Answered

1. How big is the global Artificial Intelligence or Machine Learning (AI/ML) Medical Device market?
2. What is the demand of the global Artificial Intelligence or Machine Learning (AI/ML) Medical Device market?
3. What is the year over year growth of the global Artificial Intelligence or Machine Learning (AI/ML) Medical Device market?
4. What is the total value of the global Artificial Intelligence or Machine Learning (AI/ML) Medical Device market?
5. Who are the Major Players in the global Artificial Intelligence or Machine Learning (AI/ML) Medical Device market?
6. What are the growth factors driving the market demand?

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