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Global Artificial Intelligence (AI) in Medical Imaging Market Size study & Forecast, by Technology, Clinical Application, Modalities, End-user, and Regional Forecasts 2025-2035

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Abstracts

The Global Artificial Intelligence (AI) in Medical Imaging Market is valued at approximately USD 2.35 billion in 2024 and is expected to surge at a robust CAGR of 30.50% over the forecast period 2025–2035. The integration of AI into medical imaging has reshaped the diagnostic landscape, enabling unprecedented advancements in accuracy, speed, and data interpretation. From detecting subtle anomalies in radiological scans to enabling predictive analytics that forecast disease progression, AI has moved beyond supportive tools to become a central component in modern diagnostic workflows. As healthcare providers pivot toward more precise and value-based care, the adoption of AI-powered imaging solutions is rapidly gaining traction, fueled by technological innovations, vast data availability, and an urgent need to reduce diagnostic errors and improve clinical outcomes.

The meteoric rise of this market can be attributed to the confluence of several transformative drivers, most notably the proliferation of deep learning and computer vision algorithms that can autonomously analyze complex image data with minimal human oversight. AI solutions are being deployed to streamline imaging diagnostics across critical care domains, including neurology, oncology, and digital pathology. For example, machine learning models now detect brain hemorrhages, tumors, and vascular abnormalities in MRI and CT scans with high precision, expediting treatment decisions in time-sensitive emergencies. The market is also being catalyzed by the increasing workload on radiologists, which has compelled healthcare systems to embrace AI-based augmentation for faster, more reliable interpretation of imaging results, while simultaneously curbing operational costs.

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Regionally, North America is expected to retain its dominance due to early technology adoption, mature healthcare infrastructure, and a thriving ecosystem of AI startups and research institutions. The United States leads the charge with major initiatives in AI-based clinical trials, regulatory approvals, and reimbursement strategies that promote the integration of advanced imaging technologies. Europe follows closely, with significant AI deployments in public healthcare systems and cross-border collaborative research initiatives. Meanwhile, Asia Pacific is anticipated to grow at the fastest rate during the forecast timeline, propelled by rapid healthcare digitalization, expanding middle-class healthcare access, and heavy investments in AI infrastructure across countries like China, India, and Japan. Moreover, supportive policy frameworks and AI adoption in teleradiology services across rural areas are unlocking new growth avenues in the region.

Major market player included in this report are:

Siemens Healthineers

Aidoc

GE HealthCare

IBM Watson Health

Google Health (Alphabet Inc.)

Zebra Medical Vision

Canon Medical Systems Corporation

NVIDIA Corporation

Fujifilm Holdings Corporation

Philips Healthcare

Lunit Inc.

Arterys Inc.

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Tempus Labs

Qure.ai

Microsoft Corporation

Global Artificial Intelligence (AI) in Medical Imaging Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period - 2025-2035

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Technology:

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Deep Learning

Machine Learning

Computer Vision

By Clinical Application:

Neurology

Digital Pathology

By Modalities:

X-ray

CT

MRI

Ultrasound

By End-user:

Hospitals

Clinics

By Region:

North America

U.S.

Canada

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Europe

- UK
- Germany
- France
- Spain
- Italy
- Rest of Europe

Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- Rest of Asia Pacific

Latin America

- Brazil
- Mexico

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Middle East & Africa

- UAE
- Saudi Arabia
- South Africa
- Rest of Middle East & Africa

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2025 to 2035.
- Annualized revenues and regional level analysis for each market segment.
- Detailed analysis of geographical landscape with Country level analysis of major regions.
- Competitive landscape with information on major players in the market.
- Analysis of key business strategies and recommendations on future market approach.
- Analysis of competitive structure of the market.
- Demand side and supply side analysis of the market.

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