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AI In Medical Imaging Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Technology (Deep Learning, Natural Language Processing, and Others), By Application (Neurology, Respiratory & Pulmonary, Cardiology, Breast Screening, Orthopedics, and Others), By Modalities (CT scan, MRI, X-rays, Ultrasound, and Nuclear Imaging), By End Use (Hospitals, Diagnostic Imaging Centers, and Others), By Region and Competition, 2020-2030F

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Abstracts

Global AI In Medical Imaging Market was valued at USD 1.65 Billion in 2024 and is expected to reach USD 4.36 Billion by 2030 with a CAGR of 17.53% during the forecast period. The Global AI in Medical Imaging Market is driven by several key factors, including the increasing demand for improved diagnostic accuracy, the growing volume of medical imaging data, and the need for faster diagnoses. AI technologies, such as machine learning and deep learning, enable more efficient image analysis, enhancing the ability to detect and diagnose diseases like cancer, cardiovascular conditions, and neurological disorders at earlier stages. The rise of healthcare digitalization and the integration of electronic health records (EHRs) have accelerated the adoption of AI tools in medical imaging. The shortage of radiologists and healthcare professionals, coupled with the desire for cost-effective solutions and increased healthcare efficiency, further boosts AI adoption in medical imaging, ensuring quicker, more accurate, and scalable results.

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Key Market Drivers

Increasing Demand for Diagnostic Accuracy and Early Disease Detection

The rising demand for diagnostic accuracy and early disease detection is a key factor driving the adoption of AI in medical imaging. As healthcare systems around the world face mounting pressure to improve patient outcomes and reduce diagnostic errors, AI technology provides a solution that can significantly enhance the precision of medical diagnoses. Traditional diagnostic imaging, although highly effective, can still be subject to human error, fatigue, and subjectivity. Radiologists may occasionally miss subtle abnormalities in medical images, leading to delayed or incorrect diagnoses. In October 2023, Koninklijke Philips N.V. launched the Philips Image Guided Therapy Mobile C-arm System 3000 (Zenition 30), a new X-ray system that provides real-time image guidance for a wide range of clinical procedures. These include orthopedics, trauma, spine interventions, pain management, and surgical operations, all tailored for use in operating rooms.

Key Market Challenges

Integration with Existing Healthcare Systems

Another challenge is the integration of AI-powered medical imaging solutions with existing healthcare infrastructure and workflows. Healthcare organizations often use legacy systems for medical imaging, electronic health records (EHR), and picture archiving and communication systems (PACS). For AI to be effectively integrated into these systems, there needs to be interoperability between AI tools and existing technologies.

Key Market Trends

Technological Advancements in AI Algorithms and Machine Learning

Advancements in AI algorithms and machine learning techniques are another key driver of the global AI in medical imaging market. Over the past few years, machine learning, deep learning, and neural networks have made significant strides, particularly in their ability to process complex imaging data. These advancements have enabled AI algorithms to perform highly accurate image recognition, classification, and interpretation tasks that were previously unimaginable. In July 2022, the FDA granted Philips SmartSpeed AI-based software its 510(k) approval, allowing the company to

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provide groundbreaking high-speed, high-resolution MR imaging. This software is highly compatible, enabling faster and higher-quality scans for nearly all patients, including those with implants (covering 97% of clinical protocols). Additionally, the advanced MR acceleration software delivers scans up to three times faster, enhancing the efficiency of MR departments while maintaining high-quality image resolution.

Key Market Players

Digital Diagnostics Inc.

Tempus AI, Inc.

Advanced Micro Devices, Inc.

HeartFlow, Inc.

Enlitic, Inc.

Viz.ai, Inc.

EchoNous Inc.

HeartVista Inc.

Exo Imaging, Inc.

Nano-X Imaging Ltd.

Report Scope:

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

AI In Medical Imaging Market, By Technology:

Deep Learning

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Natural Language Processing

Others

AI In Medical Imaging Market, By Application:

Neurology

Respiratory & Pulmonary

Cardiology

Breast Screening

Orthopedics

Others

AI In Medical Imaging Market, By Modalities:

CT scan

MRI

X-rays

Ultrasound

Nuclear Imaging

AI In Medical Imaging Market, By End Use:

Hospitals

Diagnostic Imaging Centers

Others

AI In Medical Imaging Market, By Region:

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North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

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Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global AI In Medical Imaging Market.

Available Customizations:

Global AI In Medical Imaging 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).

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