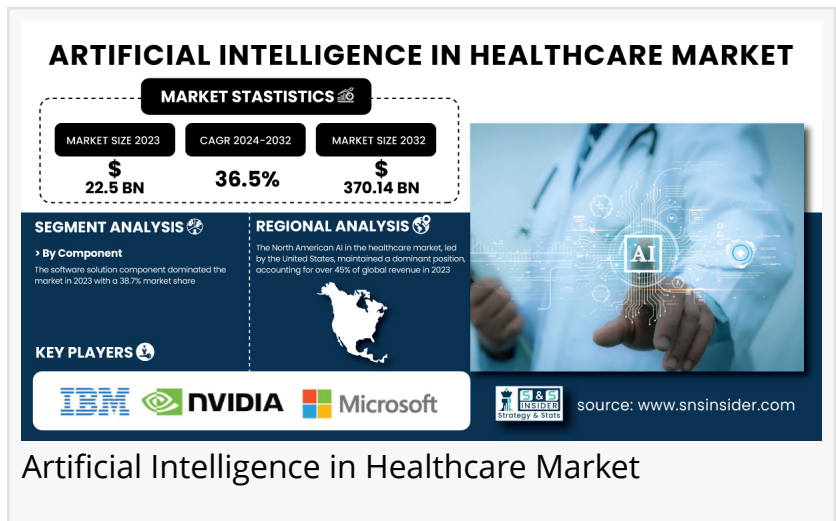


# AI in Healthcare Market to Reach \$370B by 2032 | 36.5% CAGR Growth (2024-2032)

*Advancements in diagnostics, drug discovery, and patient care fuel unprecedented growth in AI-driven healthcare solutions.*

AUSTIN, TX, UNITED STATES, February 27, 2025 /EINPresswire.com/ --

According to Research by SNS Insider, The [Artificial Intelligence in Healthcare Market](#) was estimated at USD 22.5 billion in 2023 and is expected to reach USD 370.14 billion by 2032, at a CAGR of 36.5% during the forecast period of 2024-2032.



Artificial Intelligence in the Healthcare Market is growing at breakneck speed through the growing adoption of AI-based diagnostics, personalized medication, and robotics-based automation. Expanding health data volumes, improvements in machine learning, and increased investments in AI-based offerings are driving business growth. Artificial intelligence improves healthcare by enhancing accurate diagnoses, best-in-class treatment planning, and efficient administrative operations, and so it is being seen as an industry-changing trend with huge growth potential in the future.

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## Segmentation Insights

By Component, the Software Solutions segment dominated the Artificial Intelligence in Healthcare Market with 38.7% market share in 2023.

The dominance stems from Software Solutions having an intrinsic role in facilitating AI-driven applications like medical imaging analysis, predictive analysis, and clinical decision-support tools. Software solutions powered by artificial intelligence facilitate enhanced accuracy in diagnosis by healthcare caregivers, automation workflow optimization, and better patient care operations.

The greater market demand for artificial intelligence-driven electronic medical records, virtual assistance, and remote patient monitoring systems also fueled expansion in the segment. Continuous innovation in machine learning methods, natural language processing (NLP), and deep learning tools has advanced the capabilities of AI software to diagnose diseases and personalized care. The increasing investment by research institutions, pharma organizations, and hospitals in AI-based healthcare solutions and regulatory support for AI-enabled diagnostic software further supported the dominance of software-based solutions in the market.

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By Application, the Robot-Assisted Surgery segment dominated the Artificial Intelligence in Healthcare Market with 22.0% market share in 2023

The segment's dominance is due to it enhancing surgical precision, reducing invasiveness, and optimizing patient outcomes. Artificial intelligence-based robotic platforms, such as the da Vinci Surgical System, have revolutionized minimally invasive surgery through improved dexterity, real-time imaging, and enhanced control for surgeons. The systems reduce complications, shorten hospital stays, and optimize recovery time, hence their huge popularity within healthcare institutions. The increased application of AI-driven robotic surgery in complex procedures, including orthopedics, neurology, and cardiology, has also propelled the market further. Increasing investments in surgical robotics, enhancing machine learning algorithms, and integrating real-time data analytics have reinforced the leadership of the segment. With increasing numbers of hospitals and surgical centers embracing AI-driven robotic systems, the segment continues to be a market leader.

By Technology, Machine Learning (ML) technology dominated Artificial Intelligence in the Healthcare Market with 35.6% market in 2023.

ML's dominance is due to its widespread application in diagnostics, predictive analysis, personalized medicine, and drug discovery. ML algorithms process massive amounts of healthcare data, enabling faster and more accurate disease diagnosis, treatment recommendations, and patient monitoring. ML is applied by hospitals, pharmaceutical companies, and research institutions to enable improved decision-making, reduce errors, and enhance operational efficiency. ML plays an important role in imaging analysis, where it can detect radiology and pathology scan abnormalities with greater accuracy than traditional methods. Its rapid uptake in electronic health records (EHRs), telemedicine, and genomics also helped it rule. With continuing advancements in deep learning and neural networks, ML is the reigning number one AI technology in healthcare innovation.

By End-User, the Healthcare Companies segment dominated the artificial intelligence in the healthcare market with a 32.2% market share in 2023.

Healthcare Companies' dominance is created by the extensive use of AI-based solutions among

pharmaceutical firms, biotech firms, and medical device makers. Pharmaceutical firms, biotechnology firms, and medical device firms use AI in discovering drugs, clinical trials, precision medicine, and supply chain optimization. AI-based analytics allow pharmaceutical firms to accelerate drug development, reducing cost and time-to-market for new drugs. AI also enhances imaging diagnostics, robot-assisted surgery, and customized treatment planning, leading to improved patient outcomes. AI is central to managing vast amounts of healthcare data, optimizing workflows, and automating mundane administrative tasks, improving operational efficiency. With more investments in AI-driven R&D, regulatory approval, and partnerships between technology and healthcare firms, healthcare companies continue to lead the adoption of AI. Their ability to implement AI at scale further reinforces their market leadership.

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North America dominated the Artificial Intelligence in Healthcare Market with a 45% market share in 2023

The region's dominance is because of its well-developed healthcare infrastructure, robust presence of major AI technology vendors, and high adoption of AI-based solutions. The region enjoys massive investments in AI research, robust regulatory frameworks, and favorable government initiatives encouraging AI in medical uses. In addition, the large amount of healthcare information, favorable reimbursement policies, and growing collaborations between health providers and technology firms continue to fuel AI adoption, which reinforces North America's market supremacy.

#### Key Players in Artificial Intelligence in Healthcare Market

- Enlitic Inc.
- General Vision Inc.
- IBM Corporation
- Google Inc.
- Intel Corporation
- Microsoft Corporation
- Next IT Corporation
- iCarbonX
- Welltok Inc.
- Nvidia Corporation
- others

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