

# **Artificial Intelligence (AI) in Healthcare Market by Offering (Integrated), Function (Diagnosis, Genomic, Precision Medicine, Radiation, Immunotherapy, Pharmacy, Supply Chain), Application (Clinical), End User (Hospitals), Region - Global Forecast to 2030**

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## **Abstracts**

The global Artificial Intelligence (AI) in healthcare market is projected to reach USD 110.61 billion by 2030 from USD 21.66 billion in 2025, at a CAGR of 38.6% during the forecast period. The market is expected to grow due to the growing investments & funding by public-private organizations, the fast proliferation of AI in the healthcare industry, and the rising focus on developing human-aware AI systems. The market has experienced growth due to increasing demand for enhanced services due to an unequal ratio between the healthcare workforce and patient numbers. However, inadequate IT infrastructure and unwillingness to adopt AI-based healthcare solutions in emerging economies are estimated to pose a challenge to market growth.

By deployment, the cloud-based segment is expected to register the highest growth during the forecast period.

The AI in healthcare market is categorized into three deployment models: on-premise, cloud-based, and hybrid models. The cloud-based models segment holds the largest share due to the scalability, cost-effectiveness, and accessibility of these models. Cloud-based models facilitate real-time data processing and collaboration. They allow for seamless integration, secure data storage, and rapid deployment, making them particularly suitable for healthcare providers and payers. They provide faster, more reliable care while maintaining high-quality standards. Cloud-based AI solutions are becoming increasingly popular due to their cost-effectiveness, scalability, and support for remote access. These solutions enable seamless integration and real-time analytics.

The growing adoption of telehealth and advancements in healthcare IT infrastructure further drive the demand for cloud-based models.

By end user, the hospitals & clinics segment dominated the market in the Artificial Intelligence (AI) in healthcare market for healthcare providers in 2024.

By end user, Artificial Intelligence (AI) in healthcare market is segmented into hospitals & clinics, ambulatory surgical centers, home healthcare agencies & assisted living facilities, diagnostic & imaging centers, pharmacies, and other healthcare providers. The hospitals & clinics segment accounted for the largest share of the Artificial Intelligence (AI) in healthcare market. This is attributed to the increasing demand for personalized medicines, precise diagnostics & surgical planning, growth in minimally-invasive procedures, and the requirement for interoperability with existing systems. AI-based healthcare solutions enhance diagnostic accuracy, streamline operations, and personalize care in hospitals and clinics. They automate administrative tasks, predict patient outcomes, and enable faster decision-making with real-time data analysis. AI also supports remote monitoring, optimizes resources, and reduces costs by minimizing unnecessary treatments. AI improves patient engagement through virtual assistants and enhances security by detecting fraud, making healthcare more efficient, accessible, and cost-effective.

Asia Pacific is expected to register the highest growth during the forecast period.

The Artificial Intelligence (AI) in healthcare market is divided into North America, Europe, Asia Pacific, Latin America, and Middle East & Africa. The Asia Pacific region is expected to register the highest growth during the forecast period. The Asia Pacific (APAC) region is experiencing substantial growth in the adoption of AI technologies within the healthcare sector, driven by a combination of demographic shifts, technological advancements, and increased investments in innovation. The rising elderly population in the Asia Pacific is a key factor, with the proportion of individuals aged 65 years and above increasing significantly. According to the UN's World Population Aging 2020 report, the global population in this age group is expected to double from 727 million in 2020 to 1.5 billion by 2050, with Eastern and Southeastern Asia contributing a large share of this growth.

The break-down of primary participants is as mentioned below:

By Company Type - Tier 1: 32%, Tier 2: 44%, and Tier 3: 24%

By Designation - Directors: 30%, Manager: 34%, and Others: 36%

By Region - North America: 40%, Europe: 28%, Asia Pacific: 20%, Latin America: 7% and Middle East & Africa: 5%

## Key Players

The prominent players operating in the Artificial Intelligence (AI) in healthcare market include Koninklijke Philips N.V. (Netherlands), Microsoft Corporation (US), Siemens Healthineers AG (Germany), NVIDIA Corporation (US), Epic Systems Corporation (US), GE Healthcare (US), Medtronic (US), Oracle (US), Veradigm LLC (US), Merative (IBM) (US), Google (US), Cognizant (US), Johnson & Johnson (US), Amazon Web Services, Inc. (US), SOPHiA GENETICS (US), Riverian Technologies (US), Terarecon (ConcertAI) (US), Solventum Corporation (US), Tempus (US), Viz.ai (US). These companies adopted strategies such as product launches, product updates, expansions, partnerships, collaborations, mergers, and acquisitions to strengthen their market presence in the Artificial Intelligence (AI) in healthcare market.

## Research Coverage

The report analyzes the Artificial Intelligence (AI) in healthcare market and aims to estimate the market size and future growth potential of various market segments based on offering, solution type, imaging modality, application, end user, and region. The report also analyzes factors (such as drivers, opportunities, and challenges) affecting market growth. It evaluates the opportunities and challenges in the market stakeholders. The report also studies micro markets with respect to their growth trends, prospects, and contributions to the total Artificial Intelligence (AI) in healthcare market. The report forecasts the revenue of the market segments with respect to five major regions. The report also provides a competitive analysis of the key players in this market, along with their company profiles, product offerings, recent developments, and key market strategies.

## Reasons to Buy the Report

This report will enrich established firms as well as new entrants/smaller firms to gauge the pulse of the market, which, in turn, would help them garner a higher market share. Firms purchasing the report could use one or a combination of the following strategies to strengthen their positions in the market.

This report provides insights on:

Analysis of key drivers (exponential growth in data volume and complexity due to surging adoption of digital technologies, significant cost pressure on healthcare service providers with increasing prevalence of chronic diseases, rapid proliferation of AI in healthcare sector, growing need for improvised healthcare services, growing need for early detection and diagnosis, restraints (reluctance among medical practitioners to adopt AI-based technologies, shortage of skilled AI professionals handling AI-powered solutions, lack of standardized frameworks for AI and ML technologies), opportunities (increasing use of AI-powered solutions in elderly care, increasing focus on developing human-aware AI systems, strategic partnerships and collaborations among healthcare companies and AI technology providers), challenges (inaccurate predictions due to scarcity of high-quality healthcare data, concerns regarding data privacy, lack of interoperability between AI solutions offered by different vendors) are factors contributing the growth of the Artificial Intelligence (AI) in healthcare market

**Product Development/Innovation:** Detailed insights into upcoming trends, research & development activities, and software launches in the Artificial Intelligence (AI) in healthcare market

**Market Development:** Comprehensive information on the lucrative emerging markets, type of solution, component, deployment model, industry, and region

**Market Diversification:** Exhaustive information about software portfolios, growing geographies, recent developments, and investments in the Artificial Intelligence (AI) in healthcare market

**Competitive Assessment:** In-depth assessment of market shares, growth strategies, product offerings, company evaluation quadrant, and capabilities of leading players in the global Artificial Intelligence (AI) in healthcare market, such as Koninklijke Philips N.V. (Netherlands), Microsoft Corporation (US), Siemens Healthineers AG (Germany), NVIDIA Corporation (US), Epic Systems Corporation (US)

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