

# **Global Generative AI in Healthcare Market Size study, by Application (Treatment, Diagnosis, Drug Discovery, Research), by End User (Hospitals and Clinics, Healthcare Organizations, Others), and Regional Forecasts 2022-2032**

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## **Abstracts**

Global Generative AI in Healthcare Market, valued at approximately USD 2.16 billion in 2023, is anticipated to grow with an impressive CAGR of 34.98% over the forecast period 2024-2032. Generative artificial intelligence (AI) in healthcare represents a frontier of innovation, utilizing advanced deep learning algorithms to produce valuable outputs such as medical images, textual summaries, and novel drug compounds. This technology has shown transformative potential in enhancing patient care, accelerating research, and streamlining operational efficiencies. In particular, generative AI excels in natural language processing, assisting healthcare professionals by summarizing and interpreting extensive clinical literature, thereby keeping them abreast of the latest research developments. Additionally, AI-driven drug discovery has revolutionized the identification of potential pharmaceutical compounds, significantly reducing the timeline for developing new treatments and therapies.

The Global Generative AI in Healthcare Market is driven by burgeoning adoption of generative AI technology for medical image analysis and its integral role in drug discovery and development are pivotal drivers of market growth. This advanced technology leverages sophisticated algorithms and machine learning models to generate high-quality medical images, enhance image resolution, and assist in the early detection and diagnosis of various medical conditions. The ability of generative AI to improve the accuracy and efficiency of medical image analysis is transforming diagnostic practices, enabling healthcare professionals to make more informed decisions and provide better patient care. Additionally, the integration of generative AI in healthcare is fostering innovations in personalized medicine, predictive analytics, and

treatment planning, further propelling market expansion. Furthermore, the deployment of generative AI in hospital workflow management systems is poised to enhance market expansion. However, challenges related to data privacy and security present significant obstacles to the widespread implementation of generative AI in healthcare.

The key regions considered for Global Generative AI in Healthcare Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, North America dominated the market share, attributed to its robust healthcare infrastructure and the strong presence of key industry players. Furthermore, the Asia-Pacific region is projected to witness the fastest growth during the forecast period, driven by favorable government initiatives and a large patient population base.

Major market players featured in this report include

Syntegra

Microsoft

Abridge AI Inc.

Google LLC

IBM Watson Health Corporation

InSilico Medicine

NVIDIA Corporation

Amazon

Oracle

Open AI Inc

The detailed segments and sub-segment of the market are explained below:

By Application

- Treatment
- Diagnosis
- Drug Discovery
- Research

By End User

- Hospitals and Clinics
- Healthcare Organizations
- Others

By Region:

North America

- U.S.
- Canada

Europe

- UK
- Germany

- France
- Spain
- Italy
- ROE

#### Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- RoAPAC

#### Latin America

- Brazil
- Mexico
- RoLA

#### Middle East & Africa

- Saudi Arabia
- South Africa
- RoMEA

Years considered for the study are as follows:

- Historical year – 2022
- Base year – 2023
- Forecast period – 2024 to 2032

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2022 to 2032.
- 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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