

Artificial Intelligence (AI) Heart Sound Digital Twin Analytics Market: Size, Share, Trends & Competitive Insights

*The Business Research Company's
Artificial Intelligence (AI) Heart Sound
Digital Twin Analytics Market: Size, Share,
Trends & Competitive Insights*

LONDON, GREATER LONDON, UNITED
KINGDOM, October 9, 2025

/EINPresswire.com/ -- "Get 20% Off All
Global Market Reports With Code

ONLINE20 – Stay Ahead Of Trade Shifts, Macroeconomic Trends, And Industry Disruptors



The Business
Research Company

The Business Research Company

How Large Will The Artificial Intelligence (AI) Heart Sound Digital Twin Analytics Market Be By 2025?

“

It will grow to \$1.56 billion in 2029 at a compound annual growth rate (CAGR) of 23.1%.”

*The Business Research
Company*

In recent times, the market for artificial intelligence (AI) heart sound digital twin analytics has experienced robust expansion. Projected to surge from \$0.55 billion in 2024 to \$0.68 billion in 2025, it is set to register a compound annual growth rate (CAGR) of 23.5%. The significant growth during the historic period is chiefly due to the rise in cardiovascular diseases, intensified need for early diagnosis, growing emphasis on preventive healthcare, a spike in the acceptance of telemedicine, increased

government expenditure on healthcare, and enhanced cognizance about personalized medicine.

Over the upcoming years, the artificial intelligence (AI) heart sound digital twin analytics market is projected to experience substantial growth, reaching \$1.56 billion by 2029 with a compound annual growth rate (CAGR) of 23.1%. This growth during the forecast period can be linked to the increasing pivot towards value-based healthcare, heightened patient expectations for customized therapy, burgeoning demand for remote patient monitoring, a rise in healthcare-related digital health investments, the enlargement of healthcare systems in developing regions, coupled with a sharpened focus on managing chronic diseases. Notable trends during the

forecast period encompass advancements in cardiac digital twins, the creation of real-time heart simulations, artificial intelligence (AI) enhanced auscultation devices innovations, the amalgamation of digital twins with remote monitoring systems, the inclusion of extended reality in cardiac diagnostics, and the generative adversarial networks' innovation for imaging.

Download a free sample of the artificial intelligence (ai) heart sound digital twin analytics market report:

<https://www.thebusinessresearchcompany.com/sample.aspx?id=28119&type=smp>

What Are The Major Driving Forces Influencing The Artificial Intelligence (AI) Heart Sound Digital Twin Analytics Market Landscape?

The surge in heart and blood vessel conditions is anticipated to bolster the artificial intelligence (AI) heart sound digital twin analytics market's growth. These diseases are largely due to unhealthy eating habits including an excess of saturated fats, trans fats, sugars, and sodium - all contributors to heart conditions such as high blood pressure, obesity, and high cholesterol levels. AI heart sound digital twin analytics aid in diagnosing these diseases by creating digital models specific to each patient's heart, therefore, improving diagnostic precision and personalized care. For instance, in January 2024, the American Heart Association reported a 4.0% rise in the age-adjusted death rate from heart disease. This underscores the growing need for AI heart sound digital twin analytics, driven by the escalating prevalence of cardiovascular health issues. The demand for individualized medicine, facilitated by advancements in genomics and customised cardiac treatment, is another factor propelling the AI heart sound digital twin analytics market's growth. By using AI heart sound digital twin analytics, healthcare providers can create patient-specific digital heart models, optimising treatments based on individual heart health. This is particularly significant in reducing diagnostic uncertainty and improving patient outcomes. As an example, the U.S. Food and Drug Administration (FDA) approved 26 new individualized medicines in 2023, as reported in February 2024 by the Personalized Medicine Coalition (PMC). The ever-increasing usage of personalized medicine is a key factor driving the growth of the AI heart sound digital twin analytics market.

Who Are The Top Players In The Artificial Intelligence (AI) Heart Sound Digital Twin Analytics Market?

Major players in the Artificial Intelligence (AI) Heart Sound Digital Twin Analytics Global Market Report 2025 include:

- Medtronic plc
- Tata Consultancy Services Limited (TCS)
- Siemens Healthineers AG
- Fujifilm Healthcare Corporation
- GE Healthcare Technologies Inc.
- Dassault Systèmes SE
- Synopsys Inc.
- Tempus Labs Inc.

- Biofourmis Inc.
- HeartFlow Inc.

What Are The Key Trends Shaping The Artificial Intelligence (AI) Heart Sound Digital Twin Analytics Industry?

Top-tier firms in the AI-based heart sound digital twin analytics market are prioritizing the creation of advanced products, like digital stethoscopes. These devices allow for heart sound analysis, early diagnosis, and individualized healthcare support. They are electronic tools that intensify and document bodily sounds, providing noise reduction and app connectivity to enhance diagnosis and facilitate data sharing. For example, Eko Health Inc., an American digital health firm, launched the CORE 500 digital stethoscope and Eko+ membership in Canada in April 2025. The CORE 500 digital stethoscope stands out as a highly advanced piece of equipment that boasts patented audio technology with three listening modes, ECG and heart sound visualization, active noise control for meticulous auscultation and allows for effortless data capture, sharing, and monitoring. The Eko+ membership boosts function with AI-enabled murmur and arrhythmia detection, waveform visualization, directed examination procedures, and safe sharing. Thanks to this move, healthcare professionals in Canada now have access to state-of-the-art AI tools that can elevate cardiac and pulmonary patient care and outcomes.

Market Share And Forecast By Segment In The Global Artificial Intelligence (AI) Heart Sound Digital Twin Analytics Market

The artificial intelligence (AI) heart sound digital twin analytics market covered in this report is segmented as

- 1) By Component: Software, Hardware, Services
- 2) By Deployment Mode: On-Premises, Cloud
- 3) By Application: Cardiology, Remote Patient Monitoring, Clinical Diagnostics, Research, Other Applications
- 4) By End-User: Hospitals, Clinics, Research Institutes, Diagnostic Centers, Other End-Users

Subsegments:

- 1) By Software: AI Algorithms And Models, Predictive Analytics Platforms, Simulation And Modeling Tools, Data Integration And Management Software, Visualization And Reporting Dashboards
- 2) By Hardware: Sensors, Digital Stethoscopes, Wearable Devices, Edge Devices Or Processing Units, Cloud Or Server Infrastructure
- 3) By Services: Implementation And Integration Services, Consulting And Advisory Services, Training And Education Services, Support And Maintenance Services, Data-As-A-Service (DaaS)

View the full artificial intelligence (ai) heart sound digital twin analytics market report:

<https://www.thebusinessresearchcompany.com/report/artificial-intelligence-ai-heart-sound-digital-twin-analytics-global-market-report>

Artificial Intelligence (AI) Heart Sound Digital Twin Analytics Market Regional Insights

In 2024, North America led the global market for artificial intelligence (AI) heart sound digital twin analytics. The report predicts its growth into 2025. The study encompasses several regions including Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

Browse Through More Reports Similar to the Global Artificial Intelligence (AI) Heart Sound Digital Twin Analytics Market 2025, By [The Business Research Company](https://www.thebusinessresearchcompany.com)

Cardiac Ai Monitoring And Diagnostics Global Market Report 2025

<https://www.thebusinessresearchcompany.com/report/cardiac-ai-monitoring-and-diagnostics-global-market-report>

Artificial Intelligence In Cardiology Global Market Report 2025

<https://www.thebusinessresearchcompany.com/report/artificial-intelligence-in-cardiology-global-market-report>

Ai In Life Science Analytics Global Market Report 2025

<https://www.thebusinessresearchcompany.com/report/ai-in-life-science-analytics-global-market-report>

Speak With Our Expert:

Saumya Sahay

Americas +1 310-496-7795

Asia +44 7882 955267 & +91 8897263534

Europe +44 7882 955267

Email: saumyas@tbrc.info

The Business Research Company - www.thebusinessresearchcompany.com

Follow Us On:

• LinkedIn: <https://in.linkedin.com/company/the-business-research-company>

Oliver Guirdham

The Business Research Company

+44 7882 955267

info@tbrc.info

Visit us on social media:

[LinkedIn](#)

[Facebook](#)

[X](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/856287547>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2025 Newsmatics Inc. All Right Reserved.