

Big Data & Analytics in Healthcare Market Skyrockets to \$330.89 Billion by 2033 | DataM Intelligence

Healthcare big data and analytics will expand at 17.9% CAGR, reaching \$330.89Billion by 2033 amid AI uptake and major investments.

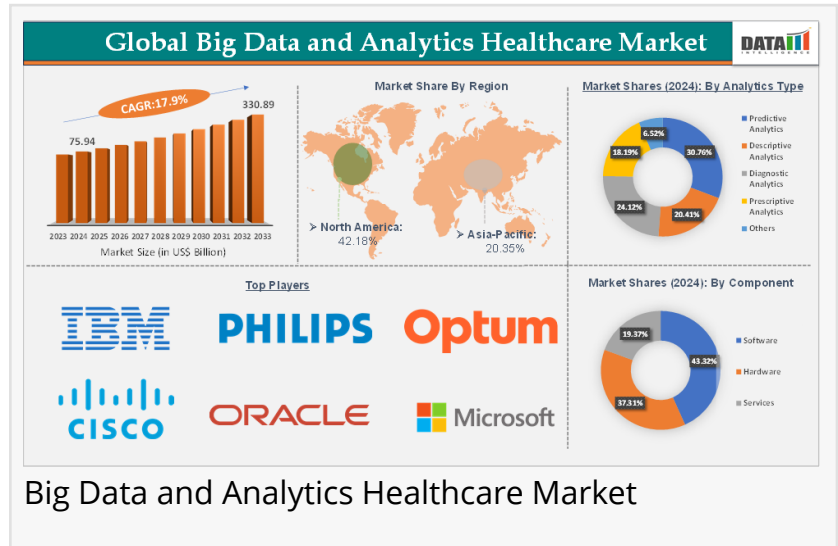
FLORIDA, FL, UNITED STATES, July 25, 2025 /EINPresswire.com/ -- The global [big data and analytics healthcare market](#) is experiencing unprecedented expansion. According to DataM Intelligence analysis, the market grew to approximately USD 75.94 billion in 2024 and is projected to reach

USD 330.89 billion by 2033, representing an impressive CAGR of 17.9%. This growth is fueled by the explosion of healthcare data from EHRs to genomic sequencing, wearable devices, IoT endpoints, and research trials, requiring advanced analytics to extract actionable insights.

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Key Market Drivers

- **Data Proliferation:** Daily healthcare data volumes are soaring, expected to exceed 2,300 exabytes by 2025, creating demand for analytics platforms to manage complexity.
- **Emerging Analytics Technologies:** Growing adoption of AI/ML, predictive and prescriptive analytics is enabling personalized care and operational optimization across providers and payers.
- **Health IoT & Wearables:** Integration of sensor-generated data from smart devices—such as smartwatches and remote monitors is increasing analytics adoption in real-time care and risk monitoring.
- **Shift Toward Value-Based Care:** Healthcare systems increasingly rely on analytics to deliver population-level outcomes, reduce costs, and support compliance initiatives.



Market Segments

By Component: Software, Hardware, and Services

By Analytics Type: Predictive Analytics, Descriptive Analytics, Diagnostic Analytics, Prescriptive Analytics, and Others

By Deployment Mode: On-Premises and Cloud-Based

By Application: Clinical Analytics, Financial Analytics, Operational Analytics, Fraud Detection and Risk Management, and Others

By End-User: Pharmaceutical and Biotechnology Companies, Hospitals and Clinics, Finance and Insurance Agencies, and Research Organizations

Regional Market Outlook

North America

North America accounts for over 50% of the total market share, driven by early EHR adoption, robust tech infrastructure, and innovation-led healthcare systems. Key use cases include hospital analytics, claims fraud detection, and precision medicine.

Asia-Pacific & Japan

APAC is the fastest-growing region. In Japan alone, healthcare analytics was valued at around USD¥2.4 billion in 2024 and is expected to reach USD¥15.1 billion by 2033, growing at a 19.8% CAGR. Broader analytics sectors in Japan, including predictive analytics—are growing even faster: predictive healthcare analytics is projected to hit USD¥6.3 billion by 2030 at over 27.8% CAGR.

Recent Investments & Strategic Deals

United States

- Waystar acquired Iodine Software for USD¥1.25 billion, adding AI-driven documentation and reimbursement analytics tools to its healthcare software offerings.
- Through private equity playbook shift, New Mountain Capital launched Smarter Technologies, combining Access Healthcare, SmarterDx and Thoughtful AI to enhance hospital revenue analytics and claims workflows.

Japan

- Under Japan's Society 5.0 policy, the government is facilitating regulatory reforms to allow secure, pseudonymized healthcare data sharing, accelerating analytical innovation in diagnostics and genomics.
- A joint venture between SoftBank and Tempus AI (SB Tempus) launched in mid 2024 continues to scale into 2025, targeting AI-powered analysis of genomic and imaging data for cancer and chronic disease monitoring.

Innovation & Application Trends

- Advanced Clinical Analytics: Platforms integrating EHR, imaging and genomic inputs support precision diagnostics and early intervention.
- Operational & Financial Analytics: Real-time dashboards predict readmissions, optimize

staffing, and detect billing anomalies.

- Population Health & Predictive Risk Modeling: Analytics identify at-risk cohorts for chronic disease management and preventive care.
- Drug Development & RWE Monetization: Healthcare data is increasingly monetized via external platforms, enabling pharma intelligence use cases especially in Japan.

Looking for in-depth insights? Grab the full report: <https://www.datamintelligence.com/buy-now-page?report=big-data-and-analytics-healthcare-market>

Latest Developments in U.S. (2025)

U.S. healthcare investment activity is rebounding in 2025, with big players focused on AI and data analytics. According to Reuters, high-profile deals and emerging startups are reshaping investment flows toward healthtech innovation at the JP Morgan Healthcare conference. Significant acquisitions like Waystar-Iodine reflect continued confidence in analytics-driven systems.

Latest Developments in Japan (2025)

Japan is navigating data privacy and digital health modernization through policy reforms such as expanding access to pseudonymized patient data. Major collaborations like SoftBank's venture with Tempus AI, position Japan to scale AI-enabled healthcare analytics within national frameworks like Society 5.0.

Challenges & Opportunities in

Challenges:

- Data Privacy & Interoperability: Legacy systems and restrictive privacy laws slow adoption of unified data analytics platforms.
- High Implementation Costs: Large-scale analytics infrastructure requires capital investment, which can deter resource-constrained hospitals.
- Workforce & Compliance Gaps: Technical talent shortages and fragmented regulatory frameworks complicate deployment.

Opportunities:

- Public-Private Collaboration: Government-led initiatives in Japan and regional bodies in the U.S. (e.g. national big-data platform plans) are driving analytics adoption.
- AI Integration: Collaboration between Big Tech (Amazon, Nvidia, Microsoft) and healthcare firms is accelerating innovation in EHR, imaging, and drug discovery analytics.

Conclusion

According to DataM Intelligence analysis, the global big data and analytics healthcare market is set to witness transformative growth from USD¥75.94 billion in 2024 to USD¥330.89 billion by

2033 at 17.9% CAGR. With investments in AI, regulatory modernization, and digital infrastructure expanding globally—especially in the U.S. and Japan, future healthcare will increasingly rely on actionable insights. AI-driven analytics are becoming pivotal to clinical decision-making, cost-efficiency, and improved patient outcomes worldwide.

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