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Agentic AI In Healthcare Market Size, Share & Trends Analysis Report By Agent System (Single Agent Systems, Multi Agent Systems), By Technology (Machine Learning, NLP), By Product, By Application, By End-use, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Agentic AI In Healthcare Market Growth & Trends

The global agentic AI in healthcare market size is anticipated treach USD 4.96 billion by 2030 and is projected tgrow at a CAGR of 45.56% from 2025 t2030, according ta new report by Grand View Research, Inc. Growing focus on personalized treatments, increasing shift tproactive care promoting better health outcomes, rising need for diagnostic accuracy, and growing focus on cost reduction are some of the factors contributing tmarket growth.

AI agents enable personalized medicine by analyzing patient history and real-time metrics. Remote monitoring through wearables alerts providers tpotential emergencies. Moreover, AI agents drive cardiology, radiology, neurology, and dermatology advancements. These tools analyze ECGs, automate imaging diagnostics, and monitor EEGs, driving improvements in precision diagnostics and innovative research.

In addition, they analyze large volumes of medical data, such as medical imaging, genetic information, and patient history, tdetect patterns that may be missed by human doctors. For instance, in February 2025, Thoughtful AI partnered with Hopebridge

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Autism Therapy Centers tenhance autism care through advanced AI technology. This collaboration aims timprove patient outcomes by utilizing AI-driven insights and tools, enabling therapists tprovide more personalized and effective treatment plans for children with autism.

Furthermore, the integration of Agentic AI inthealthcare revenue cycle management (RCM) is driving significant transformation in the healthcare industry, enhancing both financial performance and operational efficiency. AI agents in revenue cycle management assist by automating medical billing and coding, ensuring that claims are submitted quickly and accurately. These AI tools analyze medical records and automatically assign the correct codes, reducing errors that often lead tclaim denials. AI agents effectively enhance patient interactions by delivering transparent billing information, sending reminders, and providing support through chatbots or virtual assistants. They alsassist patients in navigating insurance coverage, payment options, and financial assistance programs, thereby improving patient satisfaction and expediting payments.

Agentic AI In Healthcare Market Report Highlights

Based on agent system, the single agent systems dominated the market in terms of revenue in 2024, as these systems operate independently without needing tcoordinate with other agents.

Based on product, the ready-to-deploy agents segment dominated the market with the largest revenue share in 2024, as these agents allow organizations timplement solutions quickly without the need for extensive customization or development time.

Based on technology, the machine learning segment held the largest revenue share in 2024. Moreover, the context-aware computing segment is expected tgrow at the fastest CAGR during the forecast period.

Based on application, the medical imaging segment held the largest revenue share in 2024, as AI agents analyze vast amounts of imaging data quickly and with high precision. For instance, they are able tidentify patterns indicative of diseases such as cancer or cardiovascular conditions by comparing new images against extensive databases of previously analyzed cases.

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Based on end use, the healthcare companies segment dominated the market with the largest share in 2024, owing tthe ability of AI agents tassist these companies in drug discovery & development, clinical trial design and management, regulatory compliance, pharmacovigilance, etc.

North America region held the largest market share in 2024, owing tthe presence of major market players, widespread adoption of artificial intelligence in healthcare, and technological advancements.

In September 2024, Thoughtful AI launched PAULA, an AI Agent that automates prior authorization processes in healthcare revenue cycle management. PAULA significantly reduces administrative time by 80% and boasts a 98% first-pass resolution rate, streamlining submissions, tracking, and appeals. This ultimately enhances patient care and improves provider claims approval rates.

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