

U.S. Artificial Intelligence In Healthcare Market Size, Share & Trends Analysis Report By Component (Software Solutions, Services), By Application (Robot Assisted Surgery, Clinical Trials), By Technology, By End Use, And Segment Forecasts, 2026 - 2033

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Abstracts

The U.S. artificial intelligence in healthcare market size was estimated at USD 18.1 billion in 2025 and is projected to reach USD 222.9 billion by 2033, growing at a CAGR of 36.9% from 2026 to 2033. Robust digital health infrastructure and investments in AI technology, the growing prevalence of chronic diseases, and the increasing demand for personalized and remote healthcare solutions are factors driving market growth.

In addition, supportive government initiatives, a shortage of healthcare professionals, and the growing need for operational efficiency are some other factors propelling market growth further. For instance, in October 2024, Amazon One Medical launched AI tools integrated into its proprietary electronic health record system, 1Life, to enhance patient care and reduce clinician administrative burden.

U.S. Artificial Intelligence In Healthcare Market Report Segmentation

This report forecasts revenue growth at country-level and provides an analysis of industry trends in each of the sub segments from 2021 to 2033. For this study, Grand View Research, Inc. has segmented the U.S. artificial intelligence in healthcare market report based on component, application, technology, end use, and region:

Component Outlook (Revenue, USD Million, 2021 - 2033)

Software Solutions

AI platform

Application Program Interface (API)

Machine Learning Framework

AI Solutions

On premise

Cloud based

Hardware

Processor

MPU (memory protection unit)

FPGA (Field-programmable gate array)

GPU (Graphics processing unit)

ASIC (Application-specific integrated circuit)

Memory (RAM ROM)

Network

Adapter

Interconnect

Switch

Services

Deployment & Integration

Support & Maintenance

Others

Application Outlook (Revenue, USD Million, 2021 - 2033)

Robot Assisted Surgery

Virtual Assistants

Administrative Workflow Assistants

Connected Medical devices

Medical Imaging & Diagnostics

Clinical Trials

Fraud Detection

Cybersecurity

Dosage Error Reduction

Precision medicine

Drug discovery & development

Lifestyle management & remote patient monitoring

Wearables

Others

Technology Outlook (Revenue, USD Million, 2021 - 2033)

Machine Learning

Deep learning

Supervised

Unsupervised

Others

NLP

Smart Assistance

OCR (Optical Character Recognition)

Auto Coding

Text analytics

Speech analytics

Classification and categorization

Computer Vision

Context-Aware Computing'

End Use Outlook (Revenue, USD Million, 2021 - 2033)

Hospitals & Healthcare providers

Healthcare payers

Pharmaceutical & Biotechnology Companies

Patients

Others

This report can be delivered to the clients within 5 Business Days

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