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U.S. AI In Nurse Scheduling Software Market Size, Share & Trends Analysis Report By Deployment Mode (Cloud-based, On-premises), By Application (Shift Scheduling & Optimization, Demand Forecasting & Staffing Prediction), By End-use (Hospitals, Ambulatory Surgical Centers, Home Healthcare Agencies), And Segment Forecasts, 2025 - 2033

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Abstracts

The U.S. AI in nurse scheduling software market size was estimated at USD 55.58 million in 2024 and is projected to reach USD 516.41 million by 2033, growing at a CAGR of 28.40% from 2025 to 2033. The rising demand for operational efficiency and the growing shortage of nursing professionals are significant factors contributing to market growth. In addition, advancements in AI and machine learning are other factors fueling market growth.

Rising demand for operational efficiency drives the U.S. AI nurse scheduling software industry. Hospitals and clinics face complex staffing demands, driven by increasing patient influxes and fluctuating care needs. AI-powered scheduling solutions automate routine tasks, enhancing accuracy and enabling real-time adjustments. These systems optimize nurse allocation, reduce administrative burdens, and enhance shift coverage, leading to improved patient outcomes and reduced nurse fatigue.

AI-based nurse scheduling solutions automate manual scheduling, allowing managers to focus on patient care. Advanced algorithms adjust staffing in real-time based on census trends, patient acuity, and skill mix, thereby reducing overtime and agency costs. For instance, Epic Systems is developing AI-powered clinical documentation tools, expected to launch in early 2026, aimed at reducing the time nurses and clinicians

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spend on documentation and administrative tasks. The native AI charting tool will automatically draft parts of patient records using Microsoft's Dragon Ambient AI integrated within Epic's apps.

Moreover, the growing shortage of nursing professionals across the U.S. presents a significant challenge for healthcare systems, driving the adoption of AI-driven nurse scheduling software. Hospitals and long-term care facilities are increasingly struggling to maintain adequate staff-to-patient ratios while complying with labor regulations and ensuring high-quality care. For instance, according to the data published by the American Association of Colleges of Nursing (AACN), federal authorities project a shortage of 78,610 full-time registered nurses (RNs) in 2025 and 63,720 in 2030.

U.S. AI In Nurse Scheduling Software Market Report Segmentation

This report forecasts revenue growth at country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the U.S. AI in nurse scheduling software market report based on deployment mode, application, and end-use:

Deployment Mode Outlook (Revenue, USD Million, 2021 - 2033)

Cloud-Based

On-Premises

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

Shift Scheduling & Optimization

Demand Forecasting & Staffing Prediction

Leave & Absence Management

Analytics & Reporting

Others

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

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Hospitals

Ambulatory Surgical Centers (ASCs)

Long-Term Care Facilities

Home Healthcare Agencies

Clinics & Specialty Centers

Others (Rehabilitation & Mental Health Centers)

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