

AI In Dentistry Market Size, Share & Trends Analysis Report By Solution Type (AI-Powered Diagnostic Software, AI-Powered Treatment Planning Software), By Technology, By Clinical Application, By Deployment Mode, By End User, By Region, And Segment Forecasts, 2026 - 2033

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Abstracts

The global AI in dentistry market size was valued at USD 1.3 billion in 2025 and is projected to grow from USD 1.6 billion in 2026 to USD 6.6 billion by 2033, at a CAGR of 22.7% from 2026 to 2033. Europe dominated the market with the largest revenue share of 32.4% in 2025. The market growth is driven by the increasing adoption of digital dentistry, rising demand for accurate diagnosis, and expanding use of AI in imaging, orthodontics, and implant planning.

Integration with CBCT, intraoral scanners, and CAD/CAM systems, along with workflow automation and improved treatment outcomes, is further driving market growth. In addition, the market is driven by the increasing collaborations between AI technology providers, dental device manufacturers, and oral healthcare companies to integrate AI into everyday clinical workflows. These partnerships enable continuous integration of AI with dental imaging systems, treatment planning software, and preventive care solutions, helping clinicians improve diagnostic accuracy, streamline workflows, and support evidence-based decision-making.

AI-powered solutions are also enhancing patient communication, enabling earlier disease detection, and promoting minimally invasive treatment approaches. For instance, in August 2025, VideaHealth and vVARDIS expanded their collaboration to integrate AI-powered early caries detection with the drill-free Curodont Repair Fluoride

Plus treatment. The integrated workflow has helped more than 400,000 patients receive early intervention for dental caries by enabling same-day diagnosis and treatment, improving preventive care adoption, and demonstrating the growing role of AI in routine clinical practice.

Global AI In Dentistry Market Report Segmentation

This report forecasts revenue growth at global, regional & 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 global AI in dentistry market report based on solution type, technology, clinical application, deployment mode, end user, and region:

Solution Type Outlook (Revenue, USD Million, 2021 - 2033)

AI-Powered Diagnostic Software

AI-Powered Treatment Planning Software

AI-Powered Orthodontic & Aligner Monitoring Software

AI-Powered Practice Management Software

AI-Powered Patient Communication & Engagement Software

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

Machine Learning (ML)

Deep Learning

Computer Vision

Natural Language Processing (NLP)

Generative AI

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

General Dentistry

Orthodontics

Implant Dentistry

Prosthodontics

Endodontics

Periodontics

Oral & Maxillofacial Surgery

Others

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

Cloud-Based

On-Premise

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

Dental Clinics

Dental Service Organizations (DSOs)

Hospitals & Academic Dental Centers

Dental Laboratories

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

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Spain

Denmark

Sweden

Norway

Asia Pacific

Japan

China

India

Thailand

Australia

South Korea

Latin America

Brazil

Argentina

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

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