

# Artificial Intelligence (Ai) In Precision Medicine Market Outlook 2025-2034: Market Share, and Growth Analysis By Component (Hardware, Software, Service), By Technology (Deep Learning, Querying Method, Natural Language Processing, Context Aware Processing), By Therapeutic Application

<https://marketpublishers.com/r/AD5416A07150EN.html>

Date: October 2025

Pages: 160

Price: US\$ 3,950.00 (Single User License)

ID: AD5416A07150EN

## Abstracts

The Artificial Intelligence (Ai) In Precision Medicine Market is valued at USD 3.6 billion in 2025 and is projected to grow at a CAGR of 24.8% to reach USD 26.4 billion by 2034. The AI in precision medicine market involves the application of AI technologies to tailor medical treatment to the individual characteristics of each patient. This includes using machine learning for genomic data analysis, image analysis, and patient data integration to predict disease risk, diagnose conditions, and optimize treatment plans. AI helps to analyze vast amounts of complex data, enabling personalized healthcare solutions.

The market is driven by the need for more effective and personalized healthcare, improved patient outcomes, and reduced healthcare costs. AI-powered genomic data analysis can identify genetic markers for disease risk and drug response. Image analysis can improve the accuracy of medical diagnoses. Patient data integration can provide a comprehensive view of patient health, enabling personalized treatment plans. The adoption of electronic health records (EHRs) and digital health technologies is further fueling this market.

Challenges include data privacy, regulatory compliance, and the need for robust and reliable AI models for diverse patient populations. However, the potential benefits, such as improved patient outcomes and reduced healthcare costs, are driving significant

investments. The market's future trajectory depends on the successful integration of AI into clinical practice and the development of safe and effective AI-powered precision medicine solutions.

### Key Insights Artificial Intelligence (Ai) In Precision Medicine Market

Increased use of AI for genomic data analysis and personalized drug discovery.

Growth of AI-powered image analysis for medical diagnostics.

Adoption of AI for patient data integration and personalized treatment planning.

Development of AI-driven predictive analytics for disease risk assessment.

Use of AI for virtual clinical trials and drug repurposing.

Need for more effective and personalized healthcare.

Demand for improved patient outcomes and reduced healthcare costs.

Growing availability of genomic data and electronic health records (EHRs).

Potential for AI to accelerate drug discovery and development.

Advancements in AI algorithms and machine learning techniques.

Data privacy and security concerns related to patient medical data.

Regulatory compliance and validation of AI-powered medical devices.

Need for robust and reliable AI models for diverse patient populations.

Integration of AI into existing clinical workflows and hospital systems.

Ensuring the safety and reliability of AI-driven medical decisions.

### Artificial Intelligence (Ai) In Precision Medicine Market Segmentation

#### By Component

Hardware

Software

Service

### By Technology

Deep Learning

Querying Method

Natural Language Processing

Context Aware Processing

### By Therapeutic Application

Oncology

Cardiology

Neurology

Respiratory

Other Therapeutic Applications

### Key Companies Analysed

Alphabet Inc.

Microsoft Corporation

Intel Corporation

International Business Machines Corporation

AstraZeneca PLC

Sanofi S.A.

NVIDIA Corporation

GE HealthCare Technologies Inc.

Illumina Inc.

QIAGEN N.V.

Helix Inc.

Sema4 Holdings Corp.

SOPHiA GENETICS SA

Insilico Medicine

BenevolentAI Limited

Fabric Genomics Inc.

Tempus Technologies Inc.

Enlitic Inc.

PathAI Inc.

Genuity Science Inc.

BERG LLC

Perthera Inc.

Vuno Inc.

CureMetrix Inc.

AITIA International Inc.

Zephyr AI

Freenome Inc.

PetaGene Ltd.

Suki AI Inc.

BioXcel Therapeutics Inc.

## Artificial Intelligence (Ai) In Precision Medicine Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

## Artificial Intelligence (Ai) In Precision Medicine Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory

landscapes, and evolving partnerships across energy and industrial corridors.

## Countries Covered

North America — Artificial Intelligence (Ai) In Precision Medicine market data and outlook to 2034

United States

Canada

Mexico

Europe — Artificial Intelligence (Ai) In Precision Medicine market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Artificial Intelligence (Ai) In Precision Medicine market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Artificial Intelligence (Ai) In Precision Medicine market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Artificial Intelligence (Ai) In Precision Medicine market data and outlook to 2034

Brazil

Argentina

Chile

Peru

*\* We can include data and analysis of additional countries on demand.*

## Research Methodology

This study combines primary inputs from industry experts across the Artificial Intelligence (Ai) In Precision Medicine value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

## Key Questions Addressed

What is the current and forecast market size of the Artificial Intelligence (Ai) In Precision Medicine industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

## Your Key Takeaways from the Artificial Intelligence (Ai) In Precision Medicine Market Report

Global Artificial Intelligence (Ai) In Precision Medicine market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Artificial

Intelligence (Ai) In Precision Medicine trade, costs, and supply chains

Artificial Intelligence (Ai) In Precision Medicine market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Artificial Intelligence (Ai) In Precision Medicine market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Artificial Intelligence (Ai) In Precision Medicine market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Artificial Intelligence (Ai) In Precision Medicine supply chain analysis

Artificial Intelligence (Ai) In Precision Medicine trade analysis, Artificial Intelligence (Ai) In Precision Medicine market price analysis, and Artificial Intelligence (Ai) In Precision Medicine supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Artificial Intelligence (Ai) In Precision Medicine market news and developments

## Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

*\* The updated report will be delivered within 3 working days*

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