

Artificial Intelligence In Epidemiology Market Outlook 2025-2034: Market Share, and Growth Analysis By Component (Software, Services), By Deployment (Web-Based, Cloud-Based), By Application, By End-Use

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Abstracts

The Artificial Intelligence In Epidemiology Market is valued at USD 679.7 million in 2025 and is projected to grow at a CAGR of 25.8% to reach USD 5355.8 million by 2034. The Artificial Intelligence in Epidemiology market focuses on using AI to analyze and interpret epidemiological data to understand and predict disease outbreaks, transmission patterns, and risk factors. AI algorithms analyze large datasets, such as patient records, genomic data, and environmental data, to identify patterns and trends that may be difficult for humans to detect. This helps public health officials make informed decisions and implement effective interventions.

AI-powered systems can predict the spread of infectious diseases, identify high-risk populations, and evaluate the effectiveness of public health interventions. Machine learning algorithms can learn from historical data and adapt to new outbreaks. AI also enables the development of personalized risk assessments and targeted prevention strategies. Additionally, AI can help optimize resource allocation and improve surveillance systems.

The market is driven by the increasing need for effective disease surveillance and control. The COVID-19 pandemic highlighted the importance of AI in epidemiology. AI offers the potential to improve disease prediction, accelerate outbreak response, and enhance public health preparedness. The growing availability of epidemiological data and advancements in AI algorithms are further fueling market growth.

Key Insights Artificial Intelligence In Epidemiology Market

AI-powered disease outbreak prediction and forecasting.

Genomic epidemiology using AI.

Real-time disease surveillance and monitoring.

AI-driven risk assessment and personalized prevention.

Use of AI in contact tracing and outbreak investigation.

Increasing need for effective disease surveillance and control.

Potential for improving disease prediction and outbreak response.

Demand for personalized risk assessments and prevention strategies.

Advancements in AI and genomic technologies.

Growing availability of epidemiological data.

Ensuring accuracy and reliability of AI algorithms.

Data privacy and security concerns.

Integration of AI tools with existing public health systems.

Addressing ethical and social issues related to AI in epidemiology.

Lack of standardized datasets and data sharing protocols.

Artificial Intelligence In Epidemiology Market Segmentation

By Component

Software

Services

By Deployment

Web-Based

Cloud-Based

By Application

Infection Prediction And Forecasting

Disease And Syndromic Surveillance

By End-Use

Government And State Agencies

Research Laboratories

Pharmaceutical And Biotechnology Companies

Healthcare Providers

Key Companies Analysed

Apple Inc.

Alphabet Inc.

Microsoft Corporation

Facebook Inc.

Roche Holding AG

Pfizer Inc.

Johnson & Johnson Services Inc.

Amazon Web Services Inc.

General Electric Company

Google LLC

Intel Corporation

IBM Corporation

Merck & Co. Inc.

Novartis International AG

Sanofi S.A

Bristol Myers Squibb Company

AstraZeneca PLC

Oracle Corporation

GlaxoSmithKline plc

NVIDIA Corporation

Bayer Healthcare

Siemens Healthineers AG

Cogniant Technology Solutions Corporation

Koninklijke Philips N.V.

SAS Institute Inc.

Epic Systems Corporation

Cerner Corporation

eClinicalWorks LLC

Meditech

Komodo Health

Metabiota Inc.

Artificial Intelligence In Epidemiology 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 In Epidemiology 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 In Epidemiology market data and outlook to 2034

United States

Canada

Mexico

Europe — Artificial Intelligence In Epidemiology market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Artificial Intelligence In Epidemiology market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Artificial Intelligence In Epidemiology market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Artificial Intelligence In Epidemiology 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 In Epidemiology value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary

Artificial Intelligence In Epidemiology Market Outlook 2025-2034: Market Share, and Growth Analysis By Compone...

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 In Epidemiology 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 In Epidemiology Market Report

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

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Artificial Intelligence In Epidemiology trade, costs, and supply chains

Artificial Intelligence In Epidemiology market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Artificial Intelligence In Epidemiology market size, CAGR, and market share of

key products, applications, and end-user verticals, 2023-2034

Short- and long-term Artificial Intelligence In Epidemiology market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Artificial Intelligence In Epidemiology supply chain analysis

Artificial Intelligence In Epidemiology trade analysis, Artificial Intelligence In Epidemiology market price analysis, and Artificial Intelligence In Epidemiology supply/demand dynamics

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

Latest Artificial Intelligence In Epidemiology 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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