

AI in Genomics Market Outlook Report: Industry Size, Market Shares Data, Latest Trends, Insights, Growth Potential, CAGR Forecasts to 2034

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Abstracts

The Global AI in Genomics Market valued at USD 983.5 million in 2024, is expected to grow by 42.7% CAGR to reach market size worth USD 35,157.8 million by 2034.

The AI in genomics market is experiencing rapid growth, fueled by the immense potential of artificial intelligence (AI) to analyze vast amounts of genomic data, identify patterns, and unlock new insights into human health. Genomics, the study of an organism's complete set of DNA, holds a wealth of information about an individual's genetic makeup, disease susceptibility, and potential responses to treatment. AI technologies are revolutionizing the field of genomics, enabling faster and more accurate analysis of genomic data, accelerating drug discovery, and paving the way for personalized medicine. The market has witnessed significant advancements in recent years, with the development of AI algorithms capable of analyzing complex genomic data, identifying disease-causing mutations, and predicting patient outcomes. In 2024, the AI in genomics market saw notable progress in the development of AI-powered tools for drug target identification, personalized medicine, and precision diagnostics. Furthermore, the increasing availability of large-scale genomic datasets and the development of cloud-based computing platforms have enabled more robust and efficient AI analysis of genomic data.

Looking ahead to 2025, the AI in genomics market is poised for continued growth, driven by factors like the increasing adoption of precision medicine, the growing demand for personalized healthcare, and the ongoing development of more sophisticated AI algorithms and tools. The market is likely to see heightened competition among established players and new entrants, with a focus on developing innovative AI solutions for genomics applications, enhancing data analysis capabilities,

and expanding into new market segments. As AI continues to transform the field of genomics, the AI in genomics market is expected to expand rapidly, offering significant opportunities for companies involved in developing, deploying, and leveraging these transformative technologies.

The Global AI in Genomics Market Analysis Report will provide a comprehensive assessment of business dynamics, offering detailed insights into how companies can navigate the evolving landscape to maximize their market potential through 2034. This analysis will be crucial for stakeholders aiming to align with the latest industry trends and capitalize on emerging market opportunities.

AI in Genomics Market Strategy, Price Trends, Drivers, Challenges and Opportunities to 2034

In terms of market strategy, price trends, drivers, challenges, and opportunities from 2025 to 2034, AI in Genomics market players are directing investments toward acquiring new technologies, securing raw materials through efficient procurement and inventory management, enhancing product portfolios, and leveraging capabilities to sustain growth amidst challenging conditions. Regional-specific strategies are being emphasized due to highly varying economic and social challenges across countries.

Factors such as global economic slowdown, the impact of geopolitical tensions, delayed growth in specific regions, and the risks of stagflation necessitate a vigilant and forward-looking approach among AI in Genomics industry players. Adaptations in supply chain dynamics and the growing emphasis on cleaner and sustainable practices further drive strategic shifts within companies.

The market study delivers a comprehensive overview of current trends and developments in the AI in Genomics industry, complemented by detailed descriptive and prescriptive analyses for insights into the market landscape until 2034.

North America AI in Genomics Market

The North America AI in Genomics market experienced significant advancements in 2024, driven by an increase in AI-enabled solutions adoption across key industries such as healthcare, cybersecurity, and manufacturing. The integration of cutting-edge hardware and software innovations has empowered businesses to optimize operational efficiencies, enhance data-driven decision-making, and bolster security frameworks. Anticipated growth from 2025 is supported by the region's robust investment in R&D, a favorable regulatory environment, and the widespread deployment of 5G technologies, which further enhance AI capabilities. The competitive landscape remains dynamic, with established players focusing on strategic collaborations, mergers, and the development of proprietary AI algorithms to maintain market leadership. Emerging startups are leveraging niche applications to challenge incumbents, fostering a competitive yet

collaborative ecosystem.

Europe AI in Genomics Market

In Europe, the AI in Genomics market is witnessing transformative developments in 2024, propelled by government initiatives supporting AI adoption in sectors like supply chain, security, and healthcare. Stringent data privacy regulations have spurred innovation in AI solutions emphasizing transparency and compliance, positioning Europe as a leader in ethical AI deployment. Growth prospects from 2025 are underpinned by increasing demand for AI-based automation in manufacturing and logistics, alongside advancements in AIoT and cybersecurity applications. The competitive landscape is characterized by a blend of global giants and regionally focused enterprises, each vying for market share through differentiated offerings and strategic alliances with public institutions and academic bodies.

Asia-Pacific AI in Genomics Market

The Asia-Pacific AI in Genomics market is rapidly evolving, with 2024 marking a surge in AI implementation across diverse sectors such as fintech, retail, and gaming. A growing emphasis on digital transformation, supported by government-backed initiatives and substantial private sector investment, is driving market expansion. Anticipated growth from 2025 is fueled by increasing urbanization, rising internet penetration, and a burgeoning e-commerce industry that leverages AI for personalized consumer experiences. The region's competitive landscape is vibrant, with local tech giants, innovative startups, and multinational corporations competing to deliver cost-effective and scalable AI solutions, particularly in emerging markets like India and Southeast Asia.

Rest of the World (RoW) AI in Genomics Market

The Rest of the World AI in Genomics market is gaining momentum, with 2024 seeing increased AI adoption in regions like the Middle East, Africa, and South America. Applications in smart city development, autonomous systems, and agriculture are driving growth, as nations seek innovative solutions to tackle local challenges. From 2025, the market is expected to expand further, bolstered by infrastructural investments, regional collaborations, and the introduction of AI-powered tools for resource optimization. The competitive landscape is diverse, with international players introducing customized solutions to meet specific regional needs while local innovators focus on leveraging AI for social impact, addressing critical issues like healthcare access and education.

AI in Genomics Market Dynamics and Future Analytics

The research analyses the AI in Genomics parent market, derived market, intermediaries' market, raw material market, and substitute market are all evaluated to better prospect the AI in Genomics market outlook. Geopolitical analysis, demographic analysis, and Porter's five forces analysis are prudently assessed to estimate the best AI in Genomics market projections.

Recent deals and developments are considered for their potential impact on AI in Genomics's future business. Other metrics analyzed include the Threat of New Entrants, Threat of New Substitutes, Product Differentiation, Degree of Competition, Number of Suppliers, Distribution Channel, Capital Needed, Entry Barriers, Govt. Regulations, Beneficial Alternative, and Cost of Substitute in AI in Genomics market.

AI in Genomics trade and price analysis helps comprehend AI in Genomics's international market scenario with top exporters/suppliers and top importers/customer information. The data and analysis assist our clients in planning procurement, identifying potential vendors/clients to associate with, understanding AI in Genomics price trends and patterns, and exploring new AI in Genomics sales channels. The research will be updated to the latest month to include the impact of the latest developments such as the Russia-Ukraine war on the AI in Genomics market.

AI in Genomics Market Structure, Competitive Intelligence and Key Winning Strategies

The report presents detailed profiles of top companies operating in the AI in Genomics market and players serving the AI in Genomics value chain along with their strategies for the near, medium, and long term period.

OGAnalysis' proprietary company revenue and product analysis model unveils the AI in Genomics market structure and competitive landscape. Company profiles of key players with a business description, product portfolio, SWOT analysis, Financial Analysis, and key strategies are covered in the report. It identifies top-performing AI in Genomics products in global and regional markets. New Product Launches, Investment & Funding updates, Mergers & Acquisitions, Collaboration & Partnership, Awards and Agreements, Expansion, and other developments give our clients the AI in Genomics market update to stay ahead of the competition.

Company offerings in different segments across Asia-Pacific, Europe, the Middle East, Africa, and South and Central America are presented to better understand the company strategy for the AI in Genomics market. The competition analysis enables users to assess competitor strategies and helps align their capabilities and resources for future growth prospects to improve their market share.

AI in Genomics Market Research Scope

- Global AI in Genomics market size and growth projections (CAGR), 2024- 2034
- Policies of USA New President Trump, Russia-Ukraine War, Israel-Palestine, Middle East Tensions Impact on the AI in Genomics Trade and Supply-chain
- AI in Genomics market size, share, and outlook across 5 regions and 27 countries, 2023- 2034
- AI in Genomics market size, CAGR, and Market Share of key products, applications, and end-user verticals, 2023- 2034
- Short and long-term AI in Genomics market trends, drivers, restraints, and opportunities
- Porter's Five Forces analysis, Technological developments in the AI in Genomics market, AI in Genomics supply chain analysis
- AI in Genomics trade analysis, AI in Genomics market price analysis, AI in Genomics supply/demand
- Profiles of 5 leading companies in the industry- overview, key strategies, financials, and products
- Latest AI in Genomics market news and developments

The AI in Genomics Market international scenario is well established in the report with separate chapters on North America AI in Genomics Market, Europe AI in Genomics Market, Asia-Pacific AI in Genomics Market, Middle East and Africa AI in Genomics Market, and South and Central America AI in Genomics Markets. These sections further fragment the regional AI in Genomics market by type, application, end-user, and country.

Countries Covered

North America AI in Genomics market data and outlook to 2034

United States

Canada

Mexico

Europe AI in Genomics market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Asia-Pacific AI in Genomics market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa AI in Genomics market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America AI in Genomics market data and outlook to 2034

Brazil

Argentina

Chile

Peru

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

Who can benefit from this research

The research would help top management/strategy formulators/business/product development/sales managers and investors in this market in the following ways

1. The report provides 2024 AI in Genomics market sales data at the global, regional, and key country levels with a detailed outlook to 2034 allowing companies to calculate their market share and analyze prospects, uncover new markets, and plan market entry strategy.

2. The research includes the AI in Genomics market split into different types and applications. This segmentation helps managers plan their products and budgets based on the future growth rates of each segment

3. The AI in Genomics market study helps stakeholders understand the breadth and

stance of the market giving them information on key drivers, restraints, challenges, and growth opportunities of the market and mitigating risks

4. This report would help top management understand competition better with a detailed SWOT analysis and key strategies of their competitors, and plan their position in the business

5. The study assists investors in analyzing AI in Genomics business prospects by region, key countries, and top companies' information to channel their investments.

Available Customizations

The standard syndicate report is designed to serve the common interests of AI in Genomics Market players across the value chain and include selective data and analysis from entire research findings as per the scope and price of the publication. However, to precisely match the specific research requirements of individual clients, we offer several customization options to include the data and analysis of interest in the final deliverable.

Some of the customization requests are as mentioned below –

Segmentation of choice – Our clients can seek customization to modify/add a market division for types/applications/end-uses/processes of their choice.

AI in Genomics Pricing and Margins Across the Supply Chain, AI in Genomics Price Analysis / International Trade Data / Import-Export Analysis,

Supply Chain Analysis, Supply – Demand Gap Analysis, PESTLE Analysis, Macro-Economic Analysis, and other AI in Genomics market analytics

Processing and manufacturing requirements, Patent Analysis, Technology Trends, and Product Innovations

Further, the client can seek customization to break down geographies as per their requirements for specific countries/country groups such as South East Asia, Central Asia, Emerging and Developing Asia, Western Europe, Eastern Europe, Benelux, Emerging and Developing Europe, Nordic countries, North Africa, Sub-Saharan Africa, Caribbean, The Middle East and North Africa (MENA), Gulf Cooperation Council (GCC) or any other.

Capital Requirements, Income Projections, Profit Forecasts, and other parameters to prepare a detailed project report to present to Banks/Investment Agencies.

Customization of up to 10% of the content can be done without any additional charges.

Note: Latest developments will be updated in the report and delivered within 2 to 3 working days

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