

# **AI In Genomics Market Size, Trends, Analysis, and Outlook By Offering (Software, Services), By Technology (Machine Learning, Others), By Function (Genome Sequencing, Gene Editing, Clinical Workflows, Predictive Genetic Testing & Preventive Medicine), By Application (Diagnostics, Drug Discovery & Development, Precision Medicine, Agriculture & animal Research, Others), By End-User (Pharmaceutical & Biotech Companies, Healthcare Providers, Research Centers, Academic Institutes, Government Organizations, Others), by Country, Segment, and Companies, 2024-2032**

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## **Abstracts**

The global AI In Genomics market size is poised to register 38.5% growth from 2024 to 2032, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global AI In Genomics market across By Offering (Software, Services), By Technology (Machine Learning, Others), By Function (Genome Sequencing, Gene Editing, Clinical Workflows, Predictive Genetic Testing & Preventive Medicine), By Application (Diagnostics, Drug Discovery & Development, Precision Medicine, Agriculture & animal Research, Others), By End-User (Pharmaceutical & Biotech Companies, Healthcare Providers, Research Centers, Academic Institutes, Government Organizations, Others)

The AI in genomics market is driven by the increasing adoption of genomic sequencing

technologies, growing volume of genomic data, and advancements in artificial intelligence and machine learning algorithms for genomic analysis. By 2030, the market is expected to witness rapid growth, fueled by the development of AI-powered bioinformatics tools, cloud-based genomic data platforms, and personalized medicine initiatives. Further, the integration of AI into genomics research and clinical practice will enable the identification of disease biomarkers, prediction of treatment responses, and discovery of novel therapeutic targets, ushering in a new era of precision medicine and improved patient outcomes.

## AI In Genomics Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The AI In Genomics market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of AI In Genomics survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the AI In Genomics industry.

## Key market trends defining the global AI In Genomics demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

## AI In Genomics Market Segmentation- Industry Share, Market Size, and Outlook to 2032

The AI In Genomics industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support AI In Genomics companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

## Key strategies adopted by companies within the AI In Genomics industry

Leading AI In Genomics companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 AI In Genomics companies.

### AI In Genomics Market Study- Strategic Analysis Review

The AI In Genomics market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

**Industry Dynamics:** Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

**Strategic Insights:** Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

**Internal Strengths and Weaknesses:** Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

**Future Possibilities:** Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

### AI In Genomics Market Size Outlook- Historic and Forecast Revenue in Three Cases

The AI In Genomics industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2032 in three case scenarios- low case, reference case, and high case scenarios.

### AI In Genomics Country Analysis and Revenue Outlook to 2032

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2032. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2032.

## North America AI In Genomics Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong healthcare infrastructure. Leading companies focus on new product launches in the changing environment. The US healthcare expenditure is expected to grow to \$4.8 trillion in 2024 (around 3.7% growth in 2024), potentially driving demand for various AI In Genomics market segments. Similarly, Strong market demand is encouraging Canadian AI In Genomics companies to invest in niche segments. Further, as Mexico continues to strengthen its relations and invest in technological advancements, the Mexico AI In Genomics market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

## Europe AI In Genomics Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European AI In Genomics industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of vendors in identifying and leveraging new growth prospects positions the European AI In Genomics market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

## Asia Pacific AI In Genomics Market Size Outlook- an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for AI In Genomics in Asia Pacific. In particular, China, India, and South East Asian AI In Genomics markets present a compelling outlook for 2032, acting as a magnet for both domestic and multinational vendors seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth

interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major countries in the APAC region.

Latin America AI In Genomics Market Size Outlook- Continued urbanization and rising income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

Middle East and Africa AI In Genomics Market Size Outlook- continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East AI In Genomics market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for AI In Genomics.

AI In Genomics Market Company Profiles

The global AI In Genomics market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are BenevolentAI Ltd, Dante Labs Ltd, Data4Cure Inc, Deep Genomics Inc, Fabric Genomics Inc, Freenome Holdings Inc, Genoox Ltd, Google LLC, Illumina Inc, Intel Corp, Invitae Corp, Lifebit Biotech Ltd, Microsoft Corp, MolecularMatch Inc, NVIDIA Corp, PrecisionLife Ltd, Predictive Oncology Inc, Sophia Genetics SA, Verge Genomics Inc .

Recent AI In Genomics Market Developments

The global AI In Genomics market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

AI In Genomics Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2032 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

Market Segmentation:

By Offering

Software

Services

By Technology

Machine Learning

-Deep Learning

-Supervised Learning

-Reinforcement Learning

-Unsupervised Learning

-Others

Others

By Function

Genome Sequencing

Gene Editing

Clinical Workflows

Predictive Genetic Testing & Preventive Medicine

By Application

Diagnostics

Drug Discovery & Development

Precision Medicine

Agriculture & animal Research

Others

By End-User

Pharmaceutical & Biotech Companies

Healthcare Providers

Research Centers

Academic Institutes

Government Organizations

Others

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

Companies

BenevolentAI Ltd

Dante Labs Ltd

Data4Cure Inc

Deep Genomics Inc

Fabric Genomics Inc

Freenome Holdings Inc

Genoox Ltd

Google LLC

Illumina Inc



Intel Corp

Invitae Corp

Lifebit Biotech Ltd

Microsoft Corp

MolecularMatch Inc

NVIDIA Corp

PrecisionLife Ltd

Predictive Oncology Inc

Sophia Genetics SA

Verge Genomics Inc

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Machine Learning

-Deep Learning

-Supervised Learning

-Reinforcement Learning

-Unsupervised Learning

-Others

Others

By Function

Genome Sequencing

Gene Editing

Clinical Workflows

Predictive Genetic Testing & Preventive Medicine

By Application

Diagnostics

Drug Discovery & Development

Precision Medicine

Agriculture & animal Research

Others

By End-User

Pharmaceutical & Biotech Companies

Healthcare Providers

Research Centers

Academic Institutes

Government Organizations

Others

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BenevolentAI Ltd

Dante Labs Ltd

Data4Cure Inc

Deep Genomics Inc

Fabric Genomics Inc

Freenome Holdings Inc

Genoox Ltd

Google LLC

Illumina Inc

Intel Corp

Invitae Corp

Lifebit Biotech Ltd

Microsoft Corp

MolecularMatch Inc

NVIDIA Corp

PrecisionLife Ltd  
Predictive Oncology Inc  
Sophia Genetics SA  
Verge Genomics Inc .

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