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AI in Biotechnology Market – Global Industry Size, Share, Growth, Trends, Opportunity, and Forecast, 2025 – 2033

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Abstracts

The integration of artificial intelligence (AI) within the biotechnology sector is transforming how companies approach research and development. By leveraging advanced data analytics and machine learning algorithms, biotechnology firms can enhance their capabilities, optimize processes, and ultimately improve outcomes. Such technology is not merely a trend but a significant evolution in the industry.

AI in Biotechnology Market Size and Trends

The global AI in biotechnology market was valued at USD 3.23 billion in 2024, and is expected to reach USD 14.97 billion by 2033, rising at a CAGR of 21.1% during the forecast period.

AI in Biotechnology Market Growth Drivers

Several factors are driving the growth of AI in the biotechnology market. First, the increasing volume of biological data necessitates advanced analytical tools. Traditional methods are often insufficient to process and interpret large datasets, highlighting the essential role of AI. Furthermore, AI-driven technologies enable faster drug discovery and personalized medicine, streamlining the path from laboratory to market.

Looking ahead, the synergy of AI and biotechnology is poised to unlock new discoveries and efficiency gains, solidifying its importance in the healthcare landscape.

AI in Biotechnology Market Synopsis

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This new 2025 market report presents an in-depth assessment of the global AI in biotechnology market dynamics, opportunities, future road map, competitive landscape and discusses major trends. The report offers the most up-to-date industry data on the actual market situation and future outlook in the global AI in biotechnology market. The report also provides up-to-date historical market size data for the period 2022 – 2024 and an illustrative forecast to 2033 covering key market aspects like market value, share, analysis, and trends for the global AI in biotechnology market.

The report provides a detailed analysis of the current industry situation and market requirements, highlighting facts about the market size, market share, revenue for global AI in biotechnology market segments, and a vivid forecast to 2033.

It also provides a comprehensive analysis of the pricing landscape, policies and regulation, and reimbursement pattern by countries and region. The report also offers analysis and information according to categories such as market segments, product offering, end-user, function, deployment, geographies, companies and competitive landscape. The report also provides a detailed description of the porter's five forces analysis, SWOT analysis, funding, merger and acquisitions, pipeline, growth drivers and challenges of the global AI in biotechnology market.

An in-depth analysis of the main competitors in the industry has been conducted to offer insights into their business profiles, services, primary strategies, contracts, alliances, agreements, new service introductions, mergers and acquisitions, and recent events related to the AI in biotechnology market. This report covers the competitive analysis of new startups in the AI in biotechnology market ecosystem. Additionally, the research also addresses industry-specific trends like technology assessment, ecosystem and market analysis, as well as the patent and regulatory environment, among others

The report will serve as a source for a 360-degree analysis in which various models will be thoroughly integrated. After a thorough study of the historical and current growth parameters, the growth prospects of the global AI in biotechnology market are determined with utmost precision.

AI in Biotechnology Market Segmentations

This new 2025 market report offers a detailed analysis of the AI in biotechnology market based on the following segments:

Market Breakup by Offering

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End-to-End Solutions

Niche Solutions

Technologies

Services

Market Breakup by End-User

Pharmaceutical Companies

Biotechnology Companies

Research Institutes & Labs

Healthcare Providers

Clinical Research Organizations

Market Breakup by Function

Research & Development

Regulatory Compliance

Manufacturing & Supply Chain

Launch & Commercial

Post Marketing Surveillance & Patient Support

Corporate

Market Breakup by Deployment Mode

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Cloud-based Solutions

On-premise Solutions

Market Breakup by Region

North America

Europe

Asia Pacific

Latin America

Middle East & Africa

Market Breakup by Country

United States

Canada

Germany

United Kingdom

France

Italy

Spain

Switzerland

Netherlands

China

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Japan

India

South Korea

Israel

List of Key Players in the Global AI in Biotechnology Market

Generate Biomedicines

Exscientia

Absci Corporation

Insilico Medicine

Recursion Pharmaceuticals

GenBio AI

Owkin

DeepMind (Alphabet)

Cradle Bio

Antiverse

Pfizer

AstraZeneca

Roche

Merck

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Novartis

AstraZeneca

Key Features of the Report

The global AI in biotechnology market provides granular level information about the market size, market share, historic market (2020 – 2024), and forecast (2025 – 2033)

Annualized revenues and country level analysis for each market segment.

Analysis of business strategies by identifying the key market segments positioned for strong growth in the future.

The report covers in-detail insights about the competitor's overview, company share analysis, key market developments, and key strategies.

The report outlines drivers, restraints, unmet needs, and trends that are currently affecting the market.

The report tracks recent innovations, key developments, and start-up details that are actively working in the market.

The report provides a plethora of information about market entry strategies, regulatory framework, and reimbursement scenarios.

The report analyses the impact of the socio-political environment through SWOT analysis and competition through porter's five force analysis

Through study of the key business strategies and recommendations on future market approach.

Comprehensive analysis of the competitive structure of the market.

Demand side and supply side analysis of the market

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Key Questions the Report Addresses

How big is the global AI in biotechnology market?

What is the current global AI in biotechnology market size?

Which product offering is projected to lead the market segment?

Which end user is likely to dominate the market segment?

What is the major driving factor for the global AI in biotechnology market?

Which factor is restraining the growth of the global AI in biotechnology market?

Who are the key players in the global AI in biotechnology market?

Which region has the biggest share in the global AI in biotechnology market?

Which is the fastest growing country in the global AI in biotechnology market?

How are partnerships, collaborations, mergers, and acquisitions among the key market players shaping the market dynamics?

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