

Global AI for Drug Discovery and Development Market 2025 by Company, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global AI for Drug Discovery and Development market size was valued at US\$ 1344 million in 2024 and is forecast to a readjusted size of USD 4173 million by 2031 with a CAGR of 17.8% during review period.

Artificial intelligence has significant applications in the drug discovery field as it helps track diseases, create disease cures and predict which animal viruses appear to mutate. Artificial intelligence has been known to enhance R&D in drug discovery, which has helped researchers to discover chronic disease treatments. Drug discovery and development in the fields of medicine, pharmacology, and biotechnology are processes for the creation, design, and procurement of a drug through identifying a biological target, such as enzyme protein, gene, or receptor. Previously, the drugs were discovered by identifying the active ingredient conventional treatments. Thus, drug discovery is the first step in the process of identifying potential novel drugs and their medicinal purpose. New criteria for drugs are measured based on their bioavailability, efficacy, potency, and toxicity.

The global pharmaceutical market is 1475 billion USD in 2022, growing at a CAGR of 5% during the next six years. The pharmaceutical market includes chemical drugs and biological drugs. For biologics is expected to 381 billion USD in 2022. In comparison, the chemical drug market is estimated to increase from 1005 billion in 2018 to 1094 billion U.S. dollars in 2022. The pharmaceutical market factors such as increasing demand for healthcare, technological advancements, and the rising prevalence of chronic diseases, increase in funding from private & government organizations for development of pharmaceutical manufacturing segments and rise in R&D activities for

drugs. However, the industry also faces challenges such as stringent regulations, high costs of research and development, and patent expirations. Companies need to continuously innovate and adapt to these challenges to stay competitive in the market and ensure their products reach patients in need. Additionally, the COVID-19 pandemic has highlighted the importance of vaccine development and supply chain management, further emphasizing the need for pharmaceutical companies to be agile and responsive to emerging public health needs.

This report is a detailed and comprehensive analysis for global AI for Drug Discovery and Development market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global AI for Drug Discovery and Development market size and forecasts, in consumption value (\$ Million), 2020-2031

Global AI for Drug Discovery and Development market size and forecasts by region and country, in consumption value (\$ Million), 2020-2031

Global AI for Drug Discovery and Development market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2020-2031

Global AI for Drug Discovery and Development market shares of main players, in revenue (\$ Million), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for AI for Drug Discovery and Development

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global AI for Drug Discovery and Development market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Alphabet, Atomwise, BenevolentAI, Cloud Pharmaceutical, Deep Genomics, Exscientia, IBM, Insilico Medicine, Microsoft Corporation, Nvidia Corporation, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

AI for Drug Discovery and Development market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Target Identification

Molecule Screening

De Novo Drug Design and Drug Optimization

Preclinical and Clinical Testing

Others

Market segment by Application

Oncology

Infectious Disease

Neurology

Others

Market segment by players, this report covers

Alphabet

Atomwise

BenevolentAI

Cloud Pharmaceutical

Deep Genomics

Exscientia

IBM

Insilico Medicine

Microsoft Corporation

Nvidia Corporation

XtalPi

DP Technology

Tencent iDrug

PaddleHelix

EIHealth

Aliyun

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe AI for Drug Discovery and Development product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of AI for Drug Discovery and Development, with revenue, gross margin, and global market share of AI for Drug Discovery and Development from 2020 to 2025.

Chapter 3, the AI for Drug Discovery and Development competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2020 to 2031

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2020 to 2025. and AI for Drug Discovery and Development market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of AI for Drug Discovery and Development.

Chapter 13, to describe AI for Drug Discovery and Development research findings and

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