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# Global Machine Learning Assisted Drug Discovery Market Growth (Status and Outlook) 2025-2031

https://marketpublishers.com/r/M91F4E0EA596EN.html
Date: July 2025
Pages: 127
Price: US$ 3,660.00 (Single User License)
ID: M91F4E0EA596EN

## Abstracts

The global Machine Learning Assisted Drug Discovery market size is predicted to grow from US$ 1454 million in 2025 to US$ 4262 million in 2031; it is expected to grow at a CAGR of 19.6% from 2025 to 2031.

Machine learning assisted drug discovery is an interdisciplinary technology that combines multiple fields such as data science, artificial intelligence, and biomedical science. Its aim is to extract useful information from large amounts of data through algorithms and models to accelerate the process of drug discovery. Common types include supervised learning, unsupervised learning, semi supervised learning, and reinforcement learning. Machine learning assisted drug discovery is widely used in target discovery and validation, drug design and optimization, drug screening and sorting, disease modeling and prediction, drug side effect prediction, and other fields.

The global market size for machine learning assisted drug discovery is constantly growing, driven by research and development needs, technological advancements, policy support, and capital investment. Traditional drug development takes an average of 10-15 years and is extremely costly, while machine learning technology can significantly shorten the development cycle and reduce costs. The breakthroughs in technologies such as deep learning and generative AI have made the application of machine learning in drug development more precise and efficient. In addition, governments around the world actively promote the application of machine learning and other technologies in the pharmaceutical industry, and pharmaceutical companies are very active in financing in the field of artificial intelligence, which has promoted market development. International companies such as Exscientia, BenevolentAI, Insilico Medicine are leading in technology research and commercialization, while Chinese companies such as Fosun Pharma and Xtalpi are gradually occupying a place in the

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global market through technological innovation and capital support. In the future, machine learning will be deeply integrated with technologies such as quantum computing and bioinformatics to further enhance the efficiency and accuracy of drug development. By analyzing patient genomic data, personalized drugs can be developed for specific populations. The popularization of open source models and low-cost computing power will lower the threshold for drug development and promote more small and medium-sized enterprises to participate in innovation. Meanwhile, machine learning will play a greater role in patient stratification, trial design, and other aspects, improving the success rate of clinical trials.

LPI (LP Information)' newest research report, the “Machine Learning Assisted Drug Discovery Industry Forecast” looks at past sales and reviews total world Machine Learning Assisted Drug Discovery sales in 2024, providing a comprehensive analysis by region and market sector of projected Machine Learning Assisted Drug Discovery sales for 2025 through 2031. With Machine Learning Assisted Drug Discovery sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Machine Learning Assisted Drug Discovery industry.

This Insight Report provides a comprehensive analysis of the global Machine Learning Assisted Drug Discovery landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Machine Learning Assisted Drug Discovery portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Machine Learning Assisted Drug Discovery market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Machine Learning Assisted Drug Discovery and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Machine Learning Assisted Drug Discovery.

This report presents a comprehensive overview, market shares, and growth opportunities of Machine Learning Assisted Drug Discovery market by product type, application, key players and key regions and countries.

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Segmentation by Type:

- Supervised Learning
- Unsupervised Learning
- Semi Supervised Learning
- Reinforcement Learning

Segmentation by Application:

- Target Discovery And Validation
- Drug Design And Optimization
- Drug Screening And Sorting
- Disease Modeling And Prediction
- Prediction Of Drug Side Effects
- Others

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC

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China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered

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from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Merck

Roche

Pfizer

GSK

Novartis

BenevolentAI

Exscientia

BristolMyers Squibb

Johnson And Johnson

Insilico Medicine

Atomwise

Cloud Pharmaceuticals

Recursion Pharmaceuticals

Sanofi

AstraZeneca

Fosun Pharma

Xtalpi

WuXi AppTec

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Yunnan Baiyao

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