Machine Learning in Pharmaceutical Industry Market Size Reach USD 26.2 Billion by 2031 Globally

WILMINGTON, DE, UNITED STATES, October 15, 2025 /EINPresswire.com/ -- According to the report published by Allied Market Research, Machine Learning in Pharmaceutical Industry Market Size Reach USD 26.2 Billion by 2031 Globally. The report provides an extensive analysis of changing market dynamics, major segments, value chain, competitive scenario, and regional landscape. This research offers a valuable guidance to leading players, investors, shareholders, and startups in devising strategies for sustainable growth and gaining competitive edge in the market.

The global machine learning in pharmaceutical industry market garnered $1.2 billion in 2021, and is estimated to generate $26.2 billion by 2031, manifesting a CAGR of 37.9% from 2022 to 2031

The pharmaceutical industry has witnessed a substantial surge in the integration of machine learning (ML) techniques, marking a transformative shift in drug discovery, development, and even clinical trials. ML algorithms are revolutionizing processes, from identifying potential drug candidates to predicting their efficacy and safety profiles. This technology enables pharmaceutical companies to sift through vast datasets, including genomic, proteomic, and clinical data, to uncover hidden patterns and relationships, expediting the drug discovery process.

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Machine learning is a subset of artificial intelligence that involves the use of algorithms and statistical models to enable computer systems to learn from data and make predictions or decisions without being explicitly programmed. Machine learning is a driving force in the pharmaceutical industry's pursuit of personalized medicine. Personalized medicine involves tailoring treatments to individual patients based on their unique genetic makeup, health history, and other personal factors.

The machine learning in pharmaceutical industry market is segmented on the basis of component, enterprise size, deployment. and region. By component, the market is divided into solution and services. By enterprise size, the market is classified into SMEs and large enterprises. By deployment, the market is classified into cloud and on-premise. By region, the market is

analyzed across North America, Europe, Asia-Pacific, and LAMEA. The market is segmented into Component, Enterprise Size and Deployment.

The key players profiled in the machine learning in pharmaceutical industry market report include Cyclica Inc., BioSymetrics Inc., Cloud Pharmaceuticals, Inc., Deep Genomics, Atomwise Inc., Alphabet Inc., NVIDIA Corporation, International Business Machines Corporation, Microsoft Corporation, and IBM.

The report offers a comprehensive analysis of the global ML in pharmaceutical industry market trends by thoroughly studying different aspects of the market including major segments, market statistics, market dynamics, regional market outlook, investment opportunities, and top players working towards the growth of the market. The report also highlights the present scenario and upcoming trends & developments that are contributing toward the growth of the market. Moreover, restraints and challenges that hold power to obstruct the market growth are also profiled in the report along with the Porter's five forces analysis of the market to elucidate factors such as competitive landscape, bargaining power of buyers and suppliers, threats of new players, and emergence of substitutes in the market.

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Based on region, North America held the largest share in 2021, contributing to nearly half of the global machine learning in pharmaceutical industry market share, and is projected to maintain its dominant share in terms of revenue in 2031. In addition, the Asia-Pacific region is expected to manifest the fastest CAGR of 42.4% during the forecast period. The report also analyzes the markets in Europe and LAMEA regions.

Based on enterprise size, the large enterprises segment accounted for the highest share in 2021, contributing to around three-fourths of the global machine learning in pharmaceutical industry market, and is expected to maintain its lead in terms of revenue during the forecast period. Moreover, the SMEs segment is expected to manifest the highest CAGR of 40.1% from 2022 to 2031.

Based on deployment, the cloud segment accounted for the highest share in 2021, holding more than two-thirds of the global machine learning in pharmaceutical industry market, and is expected to continue its leadership status during the forecast period. This segment is estimated to grow at the highest CAGR of 40.0% during the forecast period. The report also discusses on-premise segment.

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Covid-19 Scenario:

The COVID-19 pandemic had a positive impact on the growth of the global machine learning in pharmaceutical industry market, owing to the role of machine learning in drug discovery and development. Machine learning algorithms have been increasingly used in drug discovery and development for several years, and the pandemic accelerated this trend.

The urgency of finding treatments and vaccines for COVID-19 led to a rise in investment in machine learning and artificial intelligence for drug development. Machine learning was used to rapidly analyze large amounts of data related to the coronavirus and potential treatments. With many people unable or unwilling to participate in traditional clinical trials due to COVID-19 concerns, virtual trials became more common.

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Lastly, this report provides market intelligence most comprehensively. The report structure has been kept such that it offers maximum business value. It provides critical insights into the market dynamics and will enable strategic decision-making for the existing market players as well as those willing to enter the market.

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Pawan Kumar, the CEO of Allied Market Research, is leading the organization toward providing high-quality data and insights. We are in professional corporate relations with various companies. This helps us dig out market data that helps us generate accurate research data tables and confirm utmost accuracy in our market forecasting. Every data company in the domain is concerned. Our secondary data procurement methodology includes deep presented

in the reports published by us is extracted through primary interviews with top officials from leading online and offline research and discussion with knowledgeable professionals and analysts in the industry.

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