

Global Artificial Intelligence Drug Development Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Artificial Intelligence Drug Development market size is expected to reach \$ 14766 million by 2032, rising at a market growth of 20.9% CAGR during the forecast period (2026-2032).

Artificial intelligence drug development refers to the use of AI technologies such as machine learning, deep learning, and big data analytics to accelerate drug discovery, design, and development processes. It spans multiple stages including target identification, molecule screening, and clinical trial optimization, significantly improving efficiency and reducing costs.

The upstream of the industry chain includes biological data resources such as genomic and protein structure data, computing infrastructure, and algorithm development capabilities. Downstream applications are concentrated in pharmaceutical companies, biotechnology firms, and contract research organizations. Pharmaceutical companies adopt AI to shorten development timelines, improve success rates, and reduce costs. Biotech firms leverage AI platforms for innovative drug design and technology commercialization, while CROs use AI to enhance clinical trial design and data analysis. With the growth of precision medicine and personalized therapies, AI applications are expanding in areas such as rare diseases, oncology, and complex conditions. Increasing collaboration between large pharmaceutical companies and AI firms is accelerating commercialization. Development trends include multi-modal data integration, the use of generative AI for molecular design, automated laboratories combining AI and robotics, and the development of end-to-end drug discovery platforms, moving toward platform-based ecosystems. Driving factors include high R&D costs, long development cycles, low success rates in traditional drug discovery, and technological advancements driven by data accumulation and computing power.

Constraints include limitations in data quality and standardization, lack of model interpretability, regulatory uncertainties, and challenges in cross-disciplinary integration. Overall industry gross margins are relatively high, especially for platform and technology service providers, typically ranging from 40% to 70%, although significant upfront investment and long return cycles remain key challenges.

This report studies the global Artificial Intelligence Drug Development demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Artificial Intelligence Drug Development, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Artificial Intelligence Drug Development that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Artificial Intelligence Drug Development total market, 2021-2032, (USD Million)

Global Artificial Intelligence Drug Development total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Artificial Intelligence Drug Development total market, key domestic companies, and share, (USD Million)

Global Artificial Intelligence Drug Development revenue by player, revenue and market share 2021-2026, (USD Million)

Global Artificial Intelligence Drug Development total market by Type, CAGR, 2021-2032, (USD Million)

Global Artificial Intelligence Drug Development total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Artificial Intelligence Drug 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 Insilico Medicine, Schrödinger, Recursion, BenevolentAI, Owkin, Valo Health, XtalPi, Standigm, Evaxion Biotech, AbCellera, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Artificial Intelligence Drug Development market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Artificial Intelligence Drug Development Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Artificial Intelligence Drug Development Market, Segmentation by Type:

Protein Structure Prediction

Structure-Based Drug Design

Ligand-Based Drug Design

Generative AI Molecular Design

Multi-Omics Integrated Analysis

ADMET Property Prediction

Knowledge Graph Drug Repurposing

Global Artificial Intelligence Drug Development Market, Segmentation by Model
Parameter Scale:

Billion-Level Parameters

Ten-Billion-Level Parameters

Hundred-Billion-Level Parameters

Trillion-Level Parameters

Global Artificial Intelligence Drug Development Market, Segmentation by Applicable
Drug:

Small Molecule Drugs

Antibody Drugs

Peptide Drugs

Nucleic Acid Drugs

Vaccines

Synthetic Biology Drugs

Global Artificial Intelligence Drug Development Market, Segmentation by Application:

Oncology Therapeutics

Infectious Disease Drugs

Neurological Disorder Drugs

Cardiovascular Disease Drugs

Rare Disease Drugs

Autoimmune Disease Drugs

Companies Profiled:

Insilico Medicine

Schrödinger

Recursion

BenevolentAI

Owkin

Valo Health

XtalPi

Standigm

Evaxion Biotech

AbCellera

Absci

Iktos

BioMap

Genialis

Key Questions Answered

1. How big is the global Artificial Intelligence Drug Development market?
2. What is the demand of the global Artificial Intelligence Drug Development market?
3. What is the year over year growth of the global Artificial Intelligence Drug Development market?
4. What is the total value of the global Artificial Intelligence Drug Development market?
5. Who are the Major Players in the global Artificial Intelligence Drug Development market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Artificial Intelligence Drug Development Introduction
- 1.2 World Artificial Intelligence Drug Development Market Size & Forecast (2021 & 2025 & 2032)
- 1.3 World Artificial Intelligence Drug Development Total Market by Region (by Headquarter Location)
 - 1.3.1 World Artificial Intelligence Drug Development Market Size by Region (2021-2032), (by Headquarter Location)
 - 1.3.2 United States Based Company Artificial Intelligence Drug Development Revenue (2021-2032)
 - 1.3.3 China Based Company Artificial Intelligence Drug Development Revenue (2021-2032)
 - 1.3.4 Europe Based Company Artificial Intelligence Drug Development Revenue (2021-2032)
 - 1.3.5 Japan Based Company Artificial Intelligence Drug Development Revenue (2021-2032)
 - 1.3.6 South Korea Based Company Artificial Intelligence Drug Development Revenue (2021-2032)
 - 1.3.7 ASEAN Based Company Artificial Intelligence Drug Development Revenue (2021-2032)
 - 1.3.8 India Based Company Artificial Intelligence Drug Development Revenue (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Artificial Intelligence Drug Development Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Artificial Intelligence Drug Development Consumption Value (2021-2032)
- 2.2 World Artificial Intelligence Drug Development Consumption Value by Region
 - 2.2.1 World Artificial Intelligence Drug Development Consumption Value by Region (2021-2026)
 - 2.2.2 World Artificial Intelligence Drug Development Consumption Value Forecast by Region (2027-2032)
- 2.3 United States Artificial Intelligence Drug Development Consumption Value

(2021-2032)

2.4 China Artificial Intelligence Drug Development Consumption Value (2021-2032)

2.5 Europe Artificial Intelligence Drug Development Consumption Value (2021-2032)

2.6 Japan Artificial Intelligence Drug Development Consumption Value (2021-2032)

2.7 South Korea Artificial Intelligence Drug Development Consumption Value
(2021-2032)

2.8 ASEAN Artificial Intelligence Drug Development Consumption Value (2021-2032)

2.9 India Artificial Intelligence Drug Development Consumption Value (2021-2032)

3 WORLD ARTIFICIAL INTELLIGENCE DRUG DEVELOPMENT COMPANIES COMPETITIVE ANALYSIS

3.1 World Artificial Intelligence Drug Development Revenue by Player (2021-2026)

3.2 Industry Rank and Concentration Rate (CR)

3.2.1 Global Artificial Intelligence Drug Development Industry Rank of Major Players

3.2.2 Global Concentration Ratios (CR4) for Artificial Intelligence Drug Development in
2025

3.2.3 Global Concentration Ratios (CR8) for Artificial Intelligence Drug Development in
2025

3.3 Artificial Intelligence Drug Development Company Evaluation Quadrant

3.4 Artificial Intelligence Drug Development Market: Overall Company Footprint Analysis

3.4.1 Artificial Intelligence Drug Development Market: Region Footprint

3.4.2 Artificial Intelligence Drug Development Market: Company Product Type Footprint

3.4.3 Artificial Intelligence Drug Development Market: Company Product Application
Footprint

3.5 Competitive Environment

3.5.1 Historical Structure of the Industry

3.5.2 Barriers of Market Entry

3.5.3 Factors of Competition

3.6 Mergers & Acquisitions Activity

4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)

4.1 United States VS China: Artificial Intelligence Drug Development Revenue
Comparison (by Headquarter Location)

4.1.1 United States VS China: Artificial Intelligence Drug Development Revenue
Comparison (2021 & 2025 & 2032) (by Headquarter Location)

4.1.2 United States VS China: Artificial Intelligence Drug Development Revenue Market

Share Comparison (2021 & 2025 & 2032)

4.2 United States Based Companies VS China Based Companies: Artificial Intelligence Drug Development Consumption Value Comparison

4.2.1 United States VS China: Artificial Intelligence Drug Development Consumption Value Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Artificial Intelligence Drug Development Consumption Value Market Share Comparison (2021 & 2025 & 2032)

4.3 United States Based Artificial Intelligence Drug Development Companies and Market Share, 2021-2026

4.3.1 United States Based Artificial Intelligence Drug Development Companies, Headquarters (States, Country)

4.3.2 United States Based Companies Artificial Intelligence Drug Development Revenue, (2021-2026)

4.4 China Based Companies Artificial Intelligence Drug Development Revenue and Market Share, 2021-2026

4.4.1 China Based Artificial Intelligence Drug Development Companies, Company Headquarters (Province, Country)

4.4.2 China Based Companies Artificial Intelligence Drug Development Revenue, (2021-2026)

4.5 Rest of World Based Artificial Intelligence Drug Development Companies and Market Share, 2021-2026

4.5.1 Rest of World Based Artificial Intelligence Drug Development Companies, Headquarters (Province, Country)

4.5.2 Rest of World Based Companies Artificial Intelligence Drug Development Revenue (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Artificial Intelligence Drug Development Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Protein Structure Prediction

5.2.2 Structure-Based Drug Design

5.2.3 Ligand-Based Drug Design

5.2.4 Generative AI Molecular Design

5.2.5 Multi-Omics Integrated Analysis

5.2.6 ADMET Property Prediction

5.2.7 Knowledge Graph Drug Repurposing

5.3 Market Segment by Type

- 5.3.1 World Artificial Intelligence Drug Development Market Size by Type (2021-2026)
- 5.3.2 World Artificial Intelligence Drug Development Market Size by Type (2027-2032)
- 5.3.3 World Artificial Intelligence Drug Development Market Size Market Share by Type (2027-2032)

6 MARKET ANALYSIS BY MODEL PARAMETER SCALE

- 6.1 World Artificial Intelligence Drug Development Market Size Overview by Model Parameter Scale: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Model Parameter Scale
 - 6.2.1 Billion-Level Parameters
 - 6.2.2 Ten-Billion-Level Parameters
 - 6.2.3 Hundred-Billion-Level Parameters
 - 6.2.4 Trillion-Level Parameters
- 6.3 Market Segment by Model Parameter Scale
 - 6.3.1 World Artificial Intelligence Drug Development Market Size by Model Parameter Scale (2021-2026)
 - 6.3.2 World Artificial Intelligence Drug Development Market Size by Model Parameter Scale (2027-2032)
 - 6.3.3 World Artificial Intelligence Drug Development Market Size Market Share by Model Parameter Scale (2027-2032)

7 MARKET ANALYSIS BY APPLICABLE DRUG

- 7.1 World Artificial Intelligence Drug Development Market Size Overview by Applicable Drug: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Applicable Drug
 - 7.2.1 Small Molecule Drugs
 - 7.2.2 Antibody Drugs
 - 7.2.3 Peptide Drugs
 - 7.2.4 Nucleic Acid Drugs
 - 7.2.5 Vaccines
 - 7.2.6 Synthetic Biology Drugs
- 7.3 Market Segment by Applicable Drug
 - 7.3.1 World Artificial Intelligence Drug Development Market Size by Applicable Drug (2021-2026)
 - 7.3.2 World Artificial Intelligence Drug Development Market Size by Applicable Drug (2027-2032)
 - 7.3.3 World Artificial Intelligence Drug Development Market Size Market Share by

Applicable Drug (2027-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Artificial Intelligence Drug Development Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Oncology Therapeutics

8.2.2 Infectious Disease Drugs

8.2.3 Neurological Disorder Drugs

8.2.4 Cardiovascular Disease Drugs

8.2.5 Rare Disease Drugs

8.2.6 Autoimmune Disease Drugs

8.3 Market Segment by Application

8.3.1 World Artificial Intelligence Drug Development Market Size by Application (2021-2026)

8.3.2 World Artificial Intelligence Drug Development Market Size by Application (2027-2032)

8.3.3 World Artificial Intelligence Drug Development Market Size Market Share by Application (2021-2032)

9 COMPANY PROFILES

9.1 Insilico Medicine

9.1.1 Insilico Medicine Details

9.1.2 Insilico Medicine Major Business

9.1.3 Insilico Medicine Artificial Intelligence Drug Development Product and Services

9.1.4 Insilico Medicine Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026)

9.1.5 Insilico Medicine Recent Developments/Updates

9.1.6 Insilico Medicine Competitive Strengths & Weaknesses

9.2 Schrödinger

9.2.1 Schrödinger Details

9.2.2 Schrödinger Major Business

9.2.3 Schrödinger Artificial Intelligence Drug Development Product and Services

9.2.4 Schrödinger Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026)

9.2.5 Schrödinger Recent Developments/Updates

9.2.6 Schrödinger Competitive Strengths & Weaknesses

9.3 Recursion

9.3.1 Recursion Details

9.3.2 Recursion Major Business

9.3.3 Recursion Artificial Intelligence Drug Development Product and Services

9.3.4 Recursion Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026)

9.3.5 Recursion Recent Developments/Updates

9.3.6 Recursion Competitive Strengths & Weaknesses

9.4 BenevolentAI

9.4.1 BenevolentAI Details

9.4.2 BenevolentAI Major Business

9.4.3 BenevolentAI Artificial Intelligence Drug Development Product and Services

9.4.4 BenevolentAI Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026)

9.4.5 BenevolentAI Recent Developments/Updates

9.4.6 BenevolentAI Competitive Strengths & Weaknesses

9.5 Owkin

9.5.1 Owkin Details

9.5.2 Owkin Major Business

9.5.3 Owkin Artificial Intelligence Drug Development Product and Services

9.5.4 Owkin Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026)

9.5.5 Owkin Recent Developments/Updates

9.5.6 Owkin Competitive Strengths & Weaknesses

9.6 Valo Health

9.6.1 Valo Health Details

9.6.2 Valo Health Major Business

9.6.3 Valo Health Artificial Intelligence Drug Development Product and Services

9.6.4 Valo Health Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026)

9.6.5 Valo Health Recent Developments/Updates

9.6.6 Valo Health Competitive Strengths & Weaknesses

9.7 XtalPi

9.7.1 XtalPi Details

9.7.2 XtalPi Major Business

9.7.3 XtalPi Artificial Intelligence Drug Development Product and Services

9.7.4 XtalPi Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026)

9.7.5 XtalPi Recent Developments/Updates

9.7.6 XtalPi Competitive Strengths & Weaknesses

9.8 Standigm

9.8.1 Standigm Details

9.8.2 Standigm Major Business

9.8.3 Standigm Artificial Intelligence Drug Development Product and Services

9.8.4 Standigm Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026)

9.8.5 Standigm Recent Developments/Updates

9.8.6 Standigm Competitive Strengths & Weaknesses

9.9 Evaxion Biotech

9.9.1 Evaxion Biotech Details

9.9.2 Evaxion Biotech Major Business

9.9.3 Evaxion Biotech Artificial Intelligence Drug Development Product and Services

9.9.4 Evaxion Biotech Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026)

9.9.5 Evaxion Biotech Recent Developments/Updates

9.9.6 Evaxion Biotech Competitive Strengths & Weaknesses

9.10 AbCellera

9.10.1 AbCellera Details

9.10.2 AbCellera Major Business

9.10.3 AbCellera Artificial Intelligence Drug Development Product and Services

9.10.4 AbCellera Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026)

9.10.5 AbCellera Recent Developments/Updates

9.10.6 AbCellera Competitive Strengths & Weaknesses

9.11 Absci

9.11.1 Absci Details

9.11.2 Absci Major Business

9.11.3 Absci Artificial Intelligence Drug Development Product and Services

9.11.4 Absci Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026)

9.11.5 Absci Recent Developments/Updates

9.11.6 Absci Competitive Strengths & Weaknesses

9.12 Iktos

9.12.1 Iktos Details

9.12.2 Iktos Major Business

9.12.3 Iktos Artificial Intelligence Drug Development Product and Services

9.12.4 Iktos Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026)

9.12.5 Iktos Recent Developments/Updates

9.12.6 Iktos Competitive Strengths & Weaknesses

9.13 BioMap

9.13.1 BioMap Details

9.13.2 BioMap Major Business

9.13.3 BioMap Artificial Intelligence Drug Development Product and Services

9.13.4 BioMap Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026)

9.13.5 BioMap Recent Developments/Updates

9.13.6 BioMap Competitive Strengths & Weaknesses

9.14 Genialis

9.14.1 Genialis Details

9.14.2 Genialis Major Business

9.14.3 Genialis Artificial Intelligence Drug Development Product and Services

9.14.4 Genialis Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026)

9.14.5 Genialis Recent Developments/Updates

9.14.6 Genialis Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Artificial Intelligence Drug Development Industry Chain

10.2 Artificial Intelligence Drug Development Upstream Analysis

10.3 Artificial Intelligence Drug Development Midstream Analysis

10.4 Artificial Intelligence Drug Development Downstream Analysis

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Artificial Intelligence Drug Development Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Table 2. World Artificial Intelligence Drug Development Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)

Table 3. World Artificial Intelligence Drug Development Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)

Table 4. World Artificial Intelligence Drug Development Revenue Market Share by Region (2021-2026), (by Headquarter Location)

Table 5. World Artificial Intelligence Drug Development Revenue Market Share by Region (2027-2032), (by Headquarter Location)

Table 6. Major Market Trends

Table 7. World Artificial Intelligence Drug Development Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)

Table 8. World Artificial Intelligence Drug Development Consumption Value by Region (2021-2026) & (USD Million)

Table 9. World Artificial Intelligence Drug Development Consumption Value Forecast by Region (2027-2032) & (USD Million)

Table 10. World Artificial Intelligence Drug Development Revenue by Player (2021-2026) & (USD Million)

Table 11. Revenue Market Share of Key Artificial Intelligence Drug Development Players in 2025

Table 12. World Artificial Intelligence Drug Development Industry Rank of Major Player, Based on Revenue in 2025

Table 13. Global Artificial Intelligence Drug Development Company Evaluation Quadrant

Table 14. Head Office of Key Artificial Intelligence Drug Development Players

Table 15. Artificial Intelligence Drug Development Market: Company Product Type Footprint

Table 16. Artificial Intelligence Drug Development Market: Company Product Application Footprint

Table 17. Artificial Intelligence Drug Development Mergers & Acquisitions Activity

Table 18. United States VS China Artificial Intelligence Drug Development Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 19. United States VS China Artificial Intelligence Drug Development Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 20. United States Based Artificial Intelligence Drug Development Companies, Headquarters (States, Country)

Table 21. United States Based Companies Artificial Intelligence Drug Development Revenue, (2021-2026) & (USD Million)

Table 22. United States Based Companies Artificial Intelligence Drug Development Revenue Market Share (2021-2026)

Table 23. China Based Artificial Intelligence Drug Development Companies, Headquarters (Province, Country)

Table 24. China Based Companies Artificial Intelligence Drug Development Revenue, (2021-2026) & (USD Million)

Table 25. China Based Companies Artificial Intelligence Drug Development Revenue Market Share (2021-2026)

Table 26. Rest of World Based Artificial Intelligence Drug Development Companies, Headquarters (Province, Country)

Table 27. Rest of World Based Companies Artificial Intelligence Drug Development Revenue (2021-2026) & (USD Million)

Table 28. Rest of World Based Companies Artificial Intelligence Drug Development Revenue Market Share (2021-2026)

Table 29. World Artificial Intelligence Drug Development Market Size by Type, (USD Million), 2021 & 2025 & 2032

Table 30. World Artificial Intelligence Drug Development Market Size Value by Type (2021-2026) & (USD Million)

Table 31. World Artificial Intelligence Drug Development Market Size by Type (2027-2032) & (USD Million)

Table 32. World Artificial Intelligence Drug Development Market Size by Model Parameter Scale, (USD Million), 2021 & 2025 & 2032

Table 33. World Artificial Intelligence Drug Development Market Size Value by Model Parameter Scale (2021-2026) & (USD Million)

Table 34. World Artificial Intelligence Drug Development Market Size by Model Parameter Scale (2027-2032) & (USD Million)

Table 35. World Artificial Intelligence Drug Development Market Size by Applicable Drug, (USD Million), 2021 & 2025 & 2032

Table 36. World Artificial Intelligence Drug Development Market Size Value by Applicable Drug (2021-2026) & (USD Million)

Table 37. World Artificial Intelligence Drug Development Market Size by Applicable Drug (2027-2032) & (USD Million)

Table 38. World Artificial Intelligence Drug Development Market Size by Application, (USD Million), 2021 & 2025 & 2032

Table 39. World Artificial Intelligence Drug Development Market Size by Application

(2021-2026) & (USD Million)

Table 40. World Artificial Intelligence Drug Development Market Size by Application

(2027-2032) & (USD Million)

Table 41. Insilico Medicine Basic Information, Manufacturing Base and Competitors

Table 42. Insilico Medicine Major Business

Table 43. Insilico Medicine Artificial Intelligence Drug Development Product and Services

Table 44. Insilico Medicine Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 45. Insilico Medicine Recent Developments/Updates

Table 46. Insilico Medicine Competitive Strengths & Weaknesses

Table 47. Schrödinger Basic Information, Manufacturing Base and Competitors

Table 48. Schrödinger Major Business

Table 49. Schrödinger Artificial Intelligence Drug Development Product and Services

Table 50. Schrödinger Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 51. Schrödinger Recent Developments/Updates

Table 52. Schrödinger Competitive Strengths & Weaknesses

Table 53. Recursion Basic Information, Manufacturing Base and Competitors

Table 54. Recursion Major Business

Table 55. Recursion Artificial Intelligence Drug Development Product and Services

Table 56. Recursion Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 57. Recursion Recent Developments/Updates

Table 58. Recursion Competitive Strengths & Weaknesses

Table 59. BenevolentAI Basic Information, Manufacturing Base and Competitors

Table 60. BenevolentAI Major Business

Table 61. BenevolentAI Artificial Intelligence Drug Development Product and Services

Table 62. BenevolentAI Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 63. BenevolentAI Recent Developments/Updates

Table 64. BenevolentAI Competitive Strengths & Weaknesses

Table 65. Owkin Basic Information, Manufacturing Base and Competitors

Table 66. Owkin Major Business

Table 67. Owkin Artificial Intelligence Drug Development Product and Services

Table 68. Owkin Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 69. Owkin Recent Developments/Updates

Table 70. Owkin Competitive Strengths & Weaknesses

Table 71. Valo Health Basic Information, Manufacturing Base and Competitors
Table 72. Valo Health Major Business
Table 73. Valo Health Artificial Intelligence Drug Development Product and Services
Table 74. Valo Health Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 75. Valo Health Recent Developments/Updates
Table 76. Valo Health Competitive Strengths & Weaknesses
Table 77. XtalPi Basic Information, Manufacturing Base and Competitors
Table 78. XtalPi Major Business
Table 79. XtalPi Artificial Intelligence Drug Development Product and Services
Table 80. XtalPi Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 81. XtalPi Recent Developments/Updates
Table 82. XtalPi Competitive Strengths & Weaknesses
Table 83. Standigm Basic Information, Manufacturing Base and Competitors
Table 84. Standigm Major Business
Table 85. Standigm Artificial Intelligence Drug Development Product and Services
Table 86. Standigm Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 87. Standigm Recent Developments/Updates
Table 88. Standigm Competitive Strengths & Weaknesses
Table 89. Evaxion Biotech Basic Information, Manufacturing Base and Competitors
Table 90. Evaxion Biotech Major Business
Table 91. Evaxion Biotech Artificial Intelligence Drug Development Product and Services
Table 92. Evaxion Biotech Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 93. Evaxion Biotech Recent Developments/Updates
Table 94. Evaxion Biotech Competitive Strengths & Weaknesses
Table 95. AbCellera Basic Information, Manufacturing Base and Competitors
Table 96. AbCellera Major Business
Table 97. AbCellera Artificial Intelligence Drug Development Product and Services
Table 98. AbCellera Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 99. AbCellera Recent Developments/Updates
Table 100. AbCellera Competitive Strengths & Weaknesses
Table 101. Absci Basic Information, Manufacturing Base and Competitors
Table 102. Absci Major Business
Table 103. Absci Artificial Intelligence Drug Development Product and Services

Table 104. Absci Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 105. Absci Recent Developments/Updates
Table 106. Absci Competitive Strengths & Weaknesses
Table 107. Iktos Basic Information, Manufacturing Base and Competitors
Table 108. Iktos Major Business
Table 109. Iktos Artificial Intelligence Drug Development Product and Services
Table 110. Iktos Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 111. Iktos Recent Developments/Updates
Table 112. Iktos Competitive Strengths & Weaknesses
Table 113. BioMap Basic Information, Manufacturing Base and Competitors
Table 114. BioMap Major Business
Table 115. BioMap Artificial Intelligence Drug Development Product and Services
Table 116. BioMap Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 117. BioMap Recent Developments/Updates
Table 118. BioMap Competitive Strengths & Weaknesses
Table 119. Genialis Basic Information, Manufacturing Base and Competitors
Table 120. Genialis Major Business
Table 121. Genialis Artificial Intelligence Drug Development Product and Services
Table 122. Genialis Artificial Intelligence Drug Development Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 123. Genialis Recent Developments/Updates
Table 124. Genialis Competitive Strengths & Weaknesses
Table 125. Global Key Players of Artificial Intelligence Drug Development Upstream (Raw Materials)
Table 126. Global Artificial Intelligence Drug Development Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Artificial Intelligence Drug Development Picture

Figure 2. World Artificial Intelligence Drug Development Total Revenue: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Artificial Intelligence Drug Development Total Revenue (2021-2032) & (USD Million)

Figure 4. World Artificial Intelligence Drug Development Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Figure 5. World Artificial Intelligence Drug Development Revenue Market Share by Region (2021-2032), (by Headquarter Location)

Figure 6. United States Based Company Artificial Intelligence Drug Development Revenue (2021-2032) & (USD Million)

Figure 7. China Based Company Artificial Intelligence Drug Development Revenue (2021-2032) & (USD Million)

Figure 8. Europe Based Company Artificial Intelligence Drug Development Revenue (2021-2032) & (USD Million)

Figure 9. Japan Based Company Artificial Intelligence Drug Development Revenue (2021-2032) & (USD Million)

Figure 10. South Korea Based Company Artificial Intelligence Drug Development Revenue (2021-2032) & (USD Million)

Figure 11. ASEAN Based Company Artificial Intelligence Drug Development Revenue (2021-2032) & (USD Million)

Figure 12. India Based Company Artificial Intelligence Drug Development Revenue (2021-2032) & (USD Million)

Figure 13. Artificial Intelligence Drug Development Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Artificial Intelligence Drug Development Consumption Value (2021-2032) & (USD Million)

Figure 16. World Artificial Intelligence Drug Development Consumption Value Market Share by Region (2021-2032)

Figure 17. United States Artificial Intelligence Drug Development Consumption Value (2021-2032) & (USD Million)

Figure 18. China Artificial Intelligence Drug Development Consumption Value (2021-2032) & (USD Million)

Figure 19. Europe Artificial Intelligence Drug Development Consumption Value (2021-2032) & (USD Million)

Figure 20. Japan Artificial Intelligence Drug Development Consumption Value (2021-2032) & (USD Million)

Figure 21. South Korea Artificial Intelligence Drug Development Consumption Value (2021-2032) & (USD Million)

Figure 22. ASEAN Artificial Intelligence Drug Development Consumption Value (2021-2032) & (USD Million)

Figure 23. India Artificial Intelligence Drug Development Consumption Value (2021-2032) & (USD Million)

Figure 24. Producer Shipments of Artificial Intelligence Drug Development by Player Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Artificial Intelligence Drug Development Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Artificial Intelligence Drug Development Markets in 2025

Figure 27. United States VS China: Artificial Intelligence Drug Development Revenue Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Artificial Intelligence Drug Development Consumption Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. World Artificial Intelligence Drug Development Market Size by Type, (USD Million), 2021 & 2025 & 2032

Figure 30. World Artificial Intelligence Drug Development Market Size Market Share by Type in 2025

Figure 31. Protein Structure Prediction

Figure 32. Structure-Based Drug Design

Figure 33. Ligand-Based Drug Design

Figure 34. Generative AI Molecular Design

Figure 35. Multi-Omics Integrated Analysis

Figure 36. ADMET Property Prediction

Figure 37. Knowledge Graph Drug Repurposing

Figure 38. Knowledge Graph Drug Repurposing

Figure 39. World Artificial Intelligence Drug Development Market Size Market Share by Type (2021-2032)

Figure 40. World Artificial Intelligence Drug Development Market Size by Model Parameter Scale, (USD Million), 2021 & 2025 & 2032

Figure 41. World Artificial Intelligence Drug Development Market Size Market Share by Model Parameter Scale in 2025

Figure 42. Billion-Level Parameters

Figure 43. Ten-Billion-Level Parameters

Figure 44. Hundred-Billion-Level Parameters

Figure 45. Trillion-Level Parameters

Figure 46. World Artificial Intelligence Drug Development Market Size Market Share by Model Parameter Scale (2021-2032)

Figure 47. World Artificial Intelligence Drug Development Market Size by Applicable Drug, (USD Million), 2021 & 2025 & 2032

Figure 48. World Artificial Intelligence Drug Development Market Size Market Share by Applicable Drug in 2025

Figure 49. Small Molecule Drugs

Figure 50. Antibody Drugs

Figure 51. Peptide Drugs

Figure 52. Nucleic Acid Drugs

Figure 53. Vaccines

Figure 54. Synthetic Biology Drugs

Figure 55. World Artificial Intelligence Drug Development Market Size Market Share by Applicable Drug (2021-2032)

Figure 56. World Artificial Intelligence Drug Development Market Size by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Artificial Intelligence Drug Development Market Size Market Share by Application in 2025

Figure 58. Oncology Therapeutics

Figure 59. Infectious Disease Drugs

Figure 60. Neurological Disorder Drugs

Figure 61. Cardiovascular Disease Drugs

Figure 62. Rare Disease Drugs

Figure 63. Autoimmune Disease Drugs

Figure 64. World Artificial Intelligence Drug Development Market Size Market Share by Application (2021-2032)

Figure 65. Artificial Intelligence Drug Development Industrial Chain

Figure 66. Methodology

Figure 67. Research Process and Data Source

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