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AI in Pathology Market Size, Trends, Analysis, and Outlook By Component (Software, Scanners), By Network (Generative adversarial networks (GANs), Convolutional neural networks (CNNs), Recurrent neural networks (RNNs), Others), By Application (Drug Discovery, Disease Diagnosis & Prognosis, Clinical Workflow, Training & Education), By End-User (Pharmaceutical & Biotechnology Companies, Hospitals & Reference Laboratories, Academic & Research Institutes), by Country, Segment, and Companies, 2024-2032

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Abstracts

The global AI in Pathology market size is poised to register 16.1% growth from 2024 to 2032, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global AI in Pathology market across By Component (Software, Scanners), By Network (Generative adversarial networks (GANs), Convolutional neural networks (CNNs), Recurrent neural networks (RNNs), Others), By Application (Drug Discovery, Disease Diagnosis & Prognosis, Clinical Workflow, Training & Education), By End-User (Pharmaceutical & Biotechnology Companies, Hospitals & Reference Laboratories, Academic & Research Institutes)

The AI in pathology market is propelled by the increasing adoption of digital pathology solutions, growing volume of pathology data, and advancements in artificial intelligence and image analysis algorithms for pathology interpretation. By 2030, the market is poised to witness exponential growth, driven by the development of AI-powered

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pathology platforms, whole-slide imaging systems, and computational pathology tools. Further, the integration of AI into pathology workflows will enable automated detection and classification of tissue abnormalities, prediction of disease prognosis, and personalized treatment recommendations, revolutionizing pathology practice and improving patient care outcomes.

AI in Pathology Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The AI in Pathology market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of AI in Pathology survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the AI in Pathology industry.

Key market trends defining the global AI in Pathology demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

AI in Pathology Market Segmentation- Industry Share, Market Size, and Outlook to 2032

The AI in Pathology industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support AI in Pathology companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

Key strategies adopted by companies within the AI in Pathology industry

Leading AI in Pathology companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to

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unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 AI in Pathology companies.

AI in Pathology Market Study- Strategic Analysis Review

The AI in Pathology market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

Industry Dynamics: Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

Strategic Insights: Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

Internal Strengths and Weaknesses: Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

Future Possibilities: Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

AI in Pathology Market Size Outlook- Historic and Forecast Revenue in Three Cases

The AI in Pathology industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2032 in three case scenarios- low case, reference case, and high case scenarios.

AI in Pathology Country Analysis and Revenue Outlook to 2032

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2032. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2032.

North America AI in Pathology Market Size Outlook- Companies plan for focused investments in a changing environment

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The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong healthcare infrastructure. Leading companies focus on new product launches in the changing environment. The US healthcare expenditure is expected to grow to $4.8 trillion in 2024 (around 3.7% growth in 2024), potentially driving demand for various AI in Pathology market segments. Similarly, Strong market demand is encouraging Canadian AI in Pathology companies to invest in niche segments. Further, as Mexico continues to strengthen its relations and invest in technological advancements, the Mexico AI in Pathology market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

Europe AI in Pathology Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European AI in Pathology industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of vendors in identifying and leveraging new growth prospects positions the European AI in Pathology market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

Asia Pacific AI in Pathology Market Size Outlook- an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for AI in Pathology in Asia Pacific. In particular, China, India, and South East Asian AI in Pathology markets present a compelling outlook for 2032, acting as a magnet for both domestic and multinational vendors seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major countries in the APAC region.

Latin America AI in Pathology Market Size Outlook- Continued urbanization and rising

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income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

Middle East and Africa AI in Pathology Market Size Outlook- continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East AI in Pathology market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for AI in Pathology.

AI in Pathology Market Company Profiles

The global AI in Pathology market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are Aiforia Technologies Oyj, Aiosyn Inc, Akoya Biosciences Inc, Deep Bio Inc, F. Hoffmann-La Roche Ltd, Hologic Inc, Ibex Medical Analytics Ltd, Indica Labs Inc, Koninklijke Philips N.V., Lumea Inc, Mindpeak GmbH, OptraSCAN Inc, Paige.AI Inc, PathAI Inc, Techcyte Inc, Tempus Labs Inc, Tribun Health Inc, Visiopharm A/S.

Recent AI in Pathology Market Developments

The global AI in Pathology market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

AI in Pathology Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2032 (Forecast Period)

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Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

Qualitative Analysis

- Pricing Analysis
- Value Chain Analysis
- SWOT Profile
- Market Dynamics- Trends, Drivers, Challenges
- Porter’s Five Forces Analysis
- Macroeconomic Impact Analysis
- Case Scenarios- Low, Base, High

Market Segmentation:

By Component

Software

Scanners

By Network

Generative adversarial networks (GANs)

Convolutional neural networks (CNNs)

Recurrent neural networks (RNNs)

Others

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By Application

Drug Discovery

Disease Diagnosis & Prognosis

Clinical Workflow

Training & Education

By End-User

Pharmaceutical & Biotechnology Companies

Hospitals & Reference Laboratories

Academic & Research Institutes

Geographical Segmentation:

- North America (3 markets)
- Europe (6 markets)
- Asia Pacific (6 markets)
- Latin America (3 markets)
- Middle East Africa (5 markets)

Companies

Aiforia Technologies Oyj

Aiosyn Inc

Akoya Biosciences Inc

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Deep Bio Inc

F. Hoffmann-La Roche Ltd

Hologic Inc

Ibex Medical Analytics Ltd

Indica Labs Inc

Koninklijke Philips N.V.

Lumea Inc

Mindpeak GmbH

OptraSCAN Inc

Paige.AI Inc

PathAI Inc

Techcyte Inc

Tempus Labs Inc

Tribun Health Inc

Visiopharm A/S

Formats Available: Excel, PDF, and PPT

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Software
Scanners
By Network

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Generative adversarial networks (GANs)
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Akoya Biosciences Inc
Deep Bio Inc
F. Hoffmann-La Roche Ltd
Hologic Inc
Ibex Medical Analytics Ltd
Indica Labs Inc
Koninklijke Philips N.V.
Lumea Inc
Mindpeak GmbH
OptraSCAN Inc
Paige.AI Inc
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