

Artificial Intelligence (AI) In Animal Health Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Solutions (Hardware, Software & Services), By Phase (Phase I, Phase II, Phase III, Phase IV), By Application (Diagnostics, Identification, Tracking, Monitoring, Others), By Type (Companion Animals, Production Animals), By Region & Competition, 2020-2030F

Market Report | 2025-03-28 | 185 pages | TechSci Research

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Report description:

Global Artificial Intelligence (AI) In Animal Health Market was valued at USD 1121.20 Million in 2024 and is anticipated to project robust growth in the forecast period with a CAGR of 11.10% through 2030. The global Artificial Intelligence (AI) in Animal Health market has emerged as a dynamic and transformative force within the veterinary and animal healthcare industry. Leveraging cutting-edge technologies, AI is revolutionizing the way animals are diagnosed, treated, and cared for, leading to improved animal welfare, enhanced disease management, and more efficient veterinary practices. Al technologies, including machine learning, computer vision, natural language processing, and predictive analytics, are being harnessed to address various challenges in animal health. One of the significant areas of impact is in the early detection and diagnosis of diseases. Al algorithms can analyze vast amounts of data from medical images, such as X-rays and MRIs, as well as biological samples, to identify subtle patterns and anomalies that might escape the human eye. This capability enables veterinarians to detect diseases like cancer, joint disorders, and infections at earlier stages, facilitating prompt intervention and increasing the chances of successful treatment. Al-driven predictive analytics are revolutionizing animal health management. By analyzing historical health data, genetic information, and environmental factors, AI systems can generate insights and forecasts about potential health risks and disease outbreaks. This proactive approach allows veterinarians and animal health professionals to implement preventive measures, optimize vaccination strategies, and minimize the spread of diseases within animal populations. Telemedicine and remote monitoring have also witnessed a significant boost through AI integration. With the help of wearable devices and sensors, Al-powered systems can continuously monitor animals' vital signs, behavior, and activity levels. This real-time data can be

transmitted to veterinary professionals, enabling them to remotely track an animal's health status and provide timely interventions when necessary. This is particularly valuable for livestock management, where the early detection of illnesses can prevent economic losses and ensure the safety of the food supply chain. The adoption of AI in animal health has led to streamlined and personalized treatment plans. By analyzing individual animal characteristics, medical history, and treatment outcomes, AI algorithms can assist veterinarians in tailoring treatment protocols that are optimized for each patient. This level of customization not only improves the efficacy of treatments but also minimizes adverse effects and reduces healthcare costs for animal owners. However, along with its promises, the AI in Animal Health market also faces certain challenges. Data privacy and security concerns, as well as the need for robust and diverse datasets, are critical considerations. Additionally, the integration of AI technologies into established veterinary practices requires proper training and education for veterinarians and animal health professionals to ensure effective utilization and optimal outcomes.

Key Market Drivers

Increasing Pet Ownership and Demand for Veterinary Care

The global artificial intelligence (AI) in animal health market is experiencing significant expansion, largely fueled by rising pet ownership and the growing demand for advanced veterinary care. A significant 71% of adults residing in rural areas own at least one pet, highlighting the strong prevalence of pet ownership in these regions. Additionally, rural residents are more likely to have multiple pets, with 47% owning more than one. In comparison, 32% of suburban residents and 26% of urban dwellers have multiple pets, indicating a higher concentration of pet ownership in rural communities. As more households' welcome pets, the need for efficient, cost-effective, and technology-driven veterinary solutions is increasing. Al is playing a transformative role in enhancing pet healthcare services, from early disease detection to personalized treatment plans.

Key Market Challenges

Data Privacy and Security Concerns

Data privacy and security concerns are significant challenges in the global Artificial Intelligence (AI) in Animal Health market, as the integration of AI technologies into veterinary practices requires the handling of sensitive and personal animal health data. These concerns revolve around the protection of confidential information, prevention of unauthorized access, and the ethical use of data to ensure that the benefits of AI are realized without compromising privacy and security. In the AI-driven Animal Health Market, vast amounts of data are collected from various sources, including electronic health records, medical images, genetic information, and sensor data from wearable devices. This data is used to train AI algorithms and generate insights for early disease detection, predictive analytics, and personalized treatment plans. However, the potential risks associated with data privacy and security must be carefully managed. One primary concern is the risk of data breaches and unauthorized access. Veterinary clinics, research institutions, and other stakeholders collect and store sensitive information about animals, their health conditions, and genetic profiles.

Key Market Trends

Integration of AI in Diagnostic Imaging

The integration of AI in diagnostic imaging within the global Artificial Intelligence (AI) in Animal Health Market refers to the application of AI technologies to enhance the accuracy, efficiency, and interpretation of medical images used in veterinary diagnosis and treatment. AI algorithms are employed to analyze and process various types of diagnostic images, such as X-rays, MRIs, CT scans, and ultrasounds, with the aim of aiding veterinarians in identifying abnormalities, diseases, and conditions in animals. AI's role in diagnostic imaging involves pattern recognition, anomaly detection, and image segmentation. By learning from vast datasets, AI algorithms can pinpoint subtle details and deviations that may go unnoticed by the human eye. This technology can assist veterinarians in making more informed and timely diagnoses, leading to improved treatment planning and better outcomes for animals. The integration of AI in diagnostic imaging holds the potential to revolutionize veterinary care by reducing human error, accelerating the diagnostic process, and enhancing the overall quality of medical imaging analysis. It can also enable veterinarians to focus on complex cases and critical decisions, while routine tasks are automated by AI algorithms. Overall, the integration of AI in diagnostic imaging represents a significant advancement in the AI in Animal Health Market, contributing to the advancement of veterinary medicine and providing a valuable tool for accurate and efficient diagnosis and treatment of animals.

Key Market Players

Zoetis Services LLC Merck & Co., Inc. Laboratory Corporation of America Holdings Heska Corporation SignalPET VetCT Vetology LLC. OneCup Al Petriage ImpriMed, Inc. Report Scope: In this report, the Global Artificial Intelligence (AI) In Animal Health Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below: Artificial Intelligence (AI) In Animal Health Market, By Solution: o Hardware o Software & Services Artificial Intelligence (AI) In Animal Health Market, By Phase: o Phase I o Phase II

- o Phase III
- o Phase IV
- Artificial Intelligence (AI) In Animal Health Market, By Application:
- o Diagnostics
- o Identification
- o Tracking
- o Monitoring
- o Others
- Artificial Intelligence (AI) In Animal Health Market, By Type:
- o Companion Animals
- o Production Animals
- Artificial Intelligence (AI) In Animal Health Market, By Region:
- o North America
- United States
- 🛛 Canada
- Mexico
- o Europe
- France
- United Kingdom
- 🛛 Italy
- [] Germany
- Spain
- o Asia-Pacific
- 🛛 China
- 🛛 India
- 🛛 Japan
- Australia
- South Korea

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- o South America
- 🛛 Brazil
- 🛛 Argentina
- 🛛 Colombia
- o Middle East & Africa
- 🛛 South Africa
- 🛛 Saudi Arabia
- 🛛 UAE
- Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Artificial Intelligence (AI) In Animal Health Market.

Available Customizations:

Global Artificial Intelligence (AI) In Animal Health Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report: Company Information

Detailed analysis and profiling of additional market players (up to five).

Table of Contents:

- 1. Product Overview
- 1.1. Market Definition
- 1.2. Scope of the Market
- 1.2.1. Markets Covered
- 1.2.2. Years Considered for Study
- 1.2.3. Key Market Segmentations
- 2. Research Methodology
- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations
- 3. Executive Summary
- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends
- 4. Voice of Customer
- 5. Artificial Intelligence (AI) In Animal Health Market Outlook
- 5.1. Market Size & Forecast
- 5.1.1. By Value
- 5.2. Market Share & Forecast
- 5.2.1. By Solutions (Hardware, Software & Services)
- 5.2.2. By Phase (Phase I, Phase II, Phase IV)
- 5.2.3. By Application (Diagnostics, Identification, Tracking, Monitoring, Others)

- 5.2.4. By Type (Companion Animals, Production Animals)
- 5.2.5. By Region
- 5.2.6. By Company (2024)
- 5.3. Market Map
- 6. North America Artificial Intelligence (AI) In Animal Health Market Outlook
- 6.1. Market Size & Forecast
- 6.1.1. By Value
- 6.2. Market Share & Forecast
- 6.2.1. By Solution
- 6.2.2. By Phase
- 6.2.3. By Application
- 6.2.4. Ву Туре
- 6.2.5. By Country
- 6.3. North America: Country Analysis
- 6.3.1. United States Artificial Intelligence (AI) In Animal Health Market Outlook
- 6.3.1.1. Market Size & Forecast
- 6.3.1.1.1. By Value
- 6.3.1.2. Market Share & Forecast
- 6.3.1.2.1. By Solution
- 6.3.1.2.2. By Phase
- 6.3.1.2.3. By Application
- 6.3.1.2.4. Ву Туре
- 6.3.2. Canada Artificial Intelligence (AI) In Animal Health Market Outlook
- 6.3.2.1. Market Size & Forecast
- 6.3.2.1.1. By Value
- 6.3.2.2. Market Share & Forecast
- 6.3.2.2.1. By Solution
- 6.3.2.2.2. By Phase
- 6.3.2.2.3. By Application
- 6.3.2.2.4. Ву Туре
- 6.3.3. Mexico Artificial Intelligence (AI) In Animal Health Market Outlook
- 6.3.3.1. Market Size & Forecast
- 6.3.3.1.1. By Value
- 6.3.3.2. Market Share & Forecast
- 6.3.3.2.1. By Solution
- 6.3.3.2.2. By Phase
- 6.3.3.2.3. By Application
- 6.3.3.2.4. Ву Туре
- 7. Europe Artificial Intelligence (AI) In Animal Health Market Outlook
- 7.1. Market Size & Forecast
- 7.1.1. By Value
- 7.2. Market Share & Forecast
- 7.2.1. By Solution
- 7.2.2. By Phase
- 7.2.3. By Application
- 7.2.4. Ву Туре
- 7.2.5. By Country

- 7.3. Europe: Country Analysis 7.3.1. Germany Artificial Intelligence (AI) In Animal Health Market Outlook Market Size & Forecast 7.3.1.1. 7.3.1.1.1. By Value 7.3.1.2. Market Share & Forecast 7.3.1.2.1. By Solution 7.3.1.2.2. By Phase 7.3.1.2.3. By Application 7.3.1.2.4. By Type 7.3.2. United Kingdom Artificial Intelligence (AI) In Animal Health Market Outlook 7.3.2.1. Market Size & Forecast 7.3.2.1.1. By Value 7.3.2.2. Market Share & Forecast 7.3.2.2.1. By Solution 7.3.2.2.2. By Phase 7.3.2.2.3. By Application 7.3.2.2.4. By Type 7.3.3. Italy Artificial Intelligence (AI) In Animal Health Market Outlook Market Size & Forecast 7.3.3.1. 7.3.3.1.1. **Bv** Value 7.3.3.2. Market Share & Forecast 7.3.3.2.1. By Solution 7.3.3.2.2. By Phase 7.3.3.2.3. By Application 7.3.3.2.4. Ву Туре 7.3.4. France Artificial Intelligence (AI) In Animal Health Market Outlook 7.3.4.1. Market Size & Forecast 7.3.4.1.1. By Value 7.3.4.2. Market Share & Forecast 7.3.4.2.1. By Solution 7.3.4.2.2. By Phase 7.3.4.2.3. By Application 7.3.4.2.4. By Type 7.3.5. Spain Artificial Intelligence (AI) In Animal Health Market Outlook 7.3.5.1. Market Size & Forecast 7.3.5.1.1. By Value 7.3.5.2. Market Share & Forecast 7.3.5.2.1. By Solution 7.3.5.2.2. By Phase 7.3.5.2.3. By Application 7.3.5.2.4. By Type 8. Asia-Pacific Artificial Intelligence (AI) In Animal Health Market Outlook 8.1. Market Size & Forecast 8.1.1. By Value 8.2. Market Share & Forecast 8.2.1. By Solution
 - 8.2.2. By Phase

8.2.3.	By Application				
8.2.4.	Ву Туре				
8.2.5.	By Country				
8.3. Asi	a-Pacific: Country Analysis				
8.3.1.	China Artificial Intelligence (AI) In Animal Health Market Outlook				
8.3.1.1.	Market Size & Forecast				
8.3.1.1.	1. By Value				
8.3.1.2.	Market Share & Forecast				
8.3.1.2.	1. By Solution				
8.3.1.2.	2. By Phase				
8.3.1.2.	3. By Application				
8.3.1.2.	4. Ву Туре				
8.3.2.	India Artificial Intelligence (AI) In Animal Health Market Outlook				
8.3.2.1.	Market Size & Forecast				
8.3.2.1.	1. By Value				
8.3.2.2.	Market Share & Forecast				
8.3.2.2.	1. By Solution				
8.3.2.2.	2. By Phase				
8.3.2.2.	3. By Application				
8.3.2.2.	4. Ву Туре				
8.3.3.	Japan Artificial Intelligence (AI) In Animal Health Market Outlook				
8.3.3.1.	Market Size & Forecast				
8.3.3.1.	1. By Value				
8.3.3.2.	Market Share & Forecast				
8.3.3.2.	1. By Solution				
8.3.3.2.	2. By Phase				
8.3.3.2.	3. By Application				
8.3.3.2.4	4. By Type				
8.3.4.	South Korea Artificial Intelligence (AI) In Animal Health Market Outlook				
8.3.4.1.	Market Size & Forecast				
8.3.4.1.	1. By Value				
8.3.4.2.	Market Share & Forecast				
8.3.4.2.	1. By Solution				
8.3.4.2.	2. By Phase				
8.3.4.2.	3. By Application				
8.3.4.2.	4. By Type				
8.3.5.	Australia Artificial Intelligence (AI) In Animal Health Market Outlook				
8.3.5.1.	Market Size & Forecast				
8.3.5.1.	1. By Value				
8.3.5.2.	Market Share & Forecast				
8.3.5.2.	1. By Solution				
8.3.5.2.	2. By Phase				
8.3.5.2.	3. By Application				
8.3.5.2.	4. By Type				
9. Sou	th America Artificial Intelligence (AI) In Animal Health Market Outlook				
9.1. Market Size & Forecast					
9.1.1. By Value					
	,				

9.2. Ma	rket Share & Forecast	
9.2.1.	By Solution	
9.2.2.	By Phase	
9.2.3.	By Application	
9.2.4.	Ву Туре	
9.2.5.	By Country	
9.3. So	uth America: Country Analysis	
9.3.1.	Brazil Artificial Intelligence (AI) In Animal Health Market Outlook	
9.3.1.1.	Market Size & Forecast	
9.3.1.1.	1. By Value	
9.3.1.2.	Market Share & Forecast	
9.3.1.2.	1. By Solution	
9.3.1.2.2	2. By Phase	
9.3.1.2.3	3. By Application	
9.3.1.2.4	4. Ву Туре	
9.3.2.	Argentina Artificial Intelligence (AI) In Animal Health Market Outlook	
9.3.2.1.	Market Size & Forecast	
9.3.2.1.	1. By Value	
9.3.2.2.	Market Share & Forecast	
9.3.2.2.	1. By Solution	
9.3.2.2.2	2. By Phase	
9.3.2.2.	3. By Application	
9.3.2.2.4	4. Ву Туре	
9.3.3.	Colombia Artificial Intelligence (AI) In Animal Health Market Outlook	
9.3.3.1.	Market Size & Forecast	
9.3.3.1.	1. By Value	
9.3.3.2.	Market Share & Forecast	
9.3.3.2.	1. By Solution	
9.3.3.2.2	2. By Phase	
9.3.3.2.	3. By Application	
9.3.3.2.4	4. Ву Туре	
10. Mido	dle East and Africa Artificial Intelligence (AI) In Animal Health Market Outlook	
10.1.	Market Size & Forecast	
10.1.1.	By Value	
10.2.	Market Share & Forecast	
10.2.1.	By Solution	
10.2.2.	By Phase	
10.2.3.	By Application	
10.2.4. Ву Туре		
10.2.5.	By Country	
10.3.	MEA: Country Analysis	
10.3.1.	South Africa Artificial Intelligence (AI) In Animal Health Market Outlook	
10.3.1.1	. Market Size & Forecast	
10.3.1.1	1. By Value	
10.3.1.2	. Market Share & Forecast	
10.3.1.2	2.1. By Solution	
10.3.1.2	2.2. By Phase	

- 10.3.1.2.3. By Application
- 10.3.1.2.4. Ву Туре
- 10.3.2. Saudi Arabia Artificial Intelligence (AI) In Animal Health Market Outlook
- 10.3.2.1. Market Size & Forecast
- 10.3.2.1.1. By Value
- 10.3.2.2. Market Share & Forecast
- 10.3.2.2.1. By Solution
- 10.3.2.2.2. By Phase
- 10.3.2.2.3. By Application
- 10.3.2.2.4. Ву Туре
- 10.3.3. UAE Artificial Intelligence (AI) In Animal Health Market Outlook
- 10.3.3.1. Market Size & Forecast
- 10.3.3.1.1. By Value
- 10.3.3.2. Market Share & Forecast
- 10.3.3.2.1. By Solution
- 10.3.3.2.2. By Phase
- 10.3.3.2.3. By Application
- 10.3.3.2.4. By Type
- 11. Market Dynamics
- 11.1. Drivers
- 11.2. Challenges
- 12. Market Trends & Developments
- 12.1. Recent Developments
- 12.2. Product Launches
- 12.3. Mergers & Acquisitions
- 13. Global Artificial Intelligence (AI) In Animal Health Market: SWOT Analysis
- 14. Competitive Landscape
- 14.1. Zoetis Services LLC
- 14.1.1. Business Overview
- 14.1.2. Product & Service Offerings
- 14.1.3. Recent Developments
- 14.1.4. Financials (If Listed)
- 14.1.5. Key Personnel
- 14.1.6. SWOT Analysis
- 14.2. Merck & Co., Inc.
- 14.3. Laboratory Corporation of America Holdings
- 14.4. Heska Corporation
- 14.5. SignalPET
- 14.6. VetCT
- 14.7. Vetology LLC.
- 14.8. OneCup Al
- 14.9. Petriage
- 14.10.ImpriMed, Inc.
- 15. Strategic Recommendations
- 16. About Us & Disclaimer

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