

AI In Livestock Farming Market Size, Share, Trends, Analysis, and Forecast 2025-2034 | Global Industry Growth, Competitive Landscape, Opportunities, and Challenges

<https://marketpublishers.com/r/A260BAFC316EEN.html>

Date: May 2025

Pages: 150

Price: US\$ 3,850.00 (Single User License)

ID: A260BAFC316EEN

Abstracts

Global AI In Livestock Farming Market is valued at USD 508.5 million in 2025. Further, the market is expected to grow at a CAGR of 21.9% to reach USD 3020.6 million by 2034.

The AI in livestock farming market is undergoing a significant transformation, driven by the need for increased efficiency, sustainability, and animal welfare. This market involves the deployment of artificial intelligence technologies, such as machine learning, computer vision, and robotics, to optimize various aspects of livestock management. AI-powered solutions enable farmers to monitor animal health, automate feeding and milking processes, and improve breeding programs. By analyzing data from sensors, cameras, and other sources, AI can provide real-time insights into animal behavior and environmental conditions. The scope of this market extends across various livestock sectors, including dairy, poultry, and beef. The focus is on developing intelligent systems that can enhance productivity, reduce costs, and promote sustainable farming practices. The integration of AI is facilitating a shift from traditional, labor-intensive methods to data-driven, precision livestock farming.

2024 has been a year of rapid advancement for AI in livestock farming, with increased adoption of sensor-based monitoring and computer vision systems. We've seen a surge in the use of AI for early disease detection and prevention, enabling farmers to intervene promptly and reduce losses. The integration of AI with robotic systems for automated milking and feeding has also become more prevalent, improving efficiency and reducing labor costs. Furthermore, there's been a noticeable increase in the use of

AI for optimizing breeding programs, leading to improved genetic traits and increased productivity. The development of AI-powered platforms for environmental monitoring has also gained momentum, enabling farmers to optimize resource usage and reduce their environmental footprint. The rise of edge AI has allowed for real time processing of data on farms, reducing reliance on cloud computing. The integration of AI with mobile applications has also provided farmers with easy access to real-time data and insights.

Looking ahead to 2025 and beyond, the AI in livestock farming market is expected to experience continued growth and innovation. We anticipate further advancements in predictive analytics, with the development of more sophisticated algorithms that can forecast animal health and productivity. The integration of AI with blockchain technology will enhance traceability and transparency in the supply chain, enabling consumers to verify the origin and quality of livestock products. We also expect to see increased use of AI for automating complex tasks, such as animal sorting and handling. The rise of personalized animal care will drive the need for AI-powered solutions that can tailor management practices to individual animal needs. Furthermore, the focus will shift towards developing more sustainable farming practices, with AI being used to optimize resource usage and reduce environmental impact. The use of AI for behavioral analysis will improve animal welfare. We will also see increased focus on AI for small scale farms.

5 Trends

Sensor-Based Monitoring: AI analyzes data from sensors to monitor animal health and environmental conditions.

Computer Vision for Animal Behavior Analysis: AI-powered cameras track animal movement and behavior for early disease detection.

Robotic Automation: AI integrates with robotic systems for automated milking, feeding, and other tasks.

Predictive Analytics for Disease Prevention: AI forecasts animal health issues, enabling timely intervention.

AI-Driven Breeding Programs: AI optimizes breeding for improved genetic traits and productivity.

4 Drivers

Increasing Demand for Sustainable Farming: AI enables more efficient resource usage and reduces environmental impact.

Need for Improved Animal Welfare: AI-powered monitoring enhances animal health and well-being.

Labor Shortages in Agriculture: Automation through AI reduces reliance on manual labor.

Advancements in AI Technology: Improvements in machine learning and computer vision enhance analytical capabilities.

1 Challenge

Data Connectivity and Infrastructure: Reliable internet access and data infrastructure are crucial for implementing AI solutions in rural farming areas.

Market Segmentation

By Component

Solution

Software

App

Internet of Things Sensors

Service

By Technology

Computer Vision

Machine Learning

Predictive Analysis

By Application

Real-Time Livestock Behavior Monitoring

Healthcare And Disease Monitoring

Livestock Feed And Water Monitoring

Livestock Control And Fencing Management

Livestock Production Management

By End-User

Small And Medium-Sized Farms

Large Sized Farms

By Geography

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Spain, Italy, Rest of Europe)

Asia-Pacific (China, India, Japan, Australia, Vietnam, Rest of APAC)

The Middle East and Africa (Middle East, Africa)

South and Central America (Brazil, Argentina, Rest of SCA)

What You Receive

Global AI In Livestock Farming market size and growth projections (CAGR),
2024- 2034

Impact of recent changes in geopolitical, economic, and trade policies on the
demand and supply chain of AI In Livestock Farming.

AI In Livestock Farming market size, share, and outlook across 5 regions and 27 countries, 2025- 2034.

AI In Livestock Farming market size, CAGR, and Market Share of key products, applications, and end-user verticals, 2025- 2034.

Short and long-term AI In Livestock Farming market trends, drivers, restraints, and opportunities.

Porter's Five Forces analysis, Technological developments in the AI In Livestock Farming market, AI In Livestock Farming supply chain analysis.

AI In Livestock Farming trade analysis, AI In Livestock Farming market price analysis, AI In Livestock Farming Value Chain Analysis.

Profiles of 5 leading companies in the industry- overview, key strategies, financials, and products.

Latest AI In Livestock Farming market news and developments.

The AI In Livestock Farming Market international scenario is well established in the report with separate chapters on North America AI In Livestock Farming Market, Europe AI In Livestock Farming Market, Asia-Pacific AI In Livestock Farming Market, Middle East and Africa AI In Livestock Farming Market, and South and Central America AI In Livestock Farming Markets. These sections further fragment the regional AI In Livestock Farming market by type, application, end-user, and country.

Who can benefit from this research

The research would help top management/strategy formulators/business/product development/sales managers and investors in this market in the following ways

1. The report provides 2024 AI In Livestock Farming market sales data at the global, regional, and key country levels with a detailed outlook to 2034, allowing companies to calculate their market share and analyze prospects, uncover new markets, and plan market entry strategy.

2. The research includes the AI In Livestock Farming market split into different types and applications. This segmentation helps managers plan their products and budgets based on the future growth rates of each segment
3. The AI In Livestock Farming market study helps stakeholders understand the breadth and stance of the market giving them information on key drivers, restraints, challenges, and growth opportunities of the market and mitigating risks
4. This report would help top management understand competition better with a detailed SWOT analysis and key strategies of their competitors, and plan their position in the business
5. The study assists investors in analyzing AI In Livestock Farming business prospects by region, key countries, and top companies' information to channel their investments.

Available Customizations

The standard syndicate report is designed to serve the common interests of AI In Livestock Farming Market players across the value chain and include selective data and analysis from entire research findings as per the scope and price of the publication.

However, to precisely match the specific research requirements of individual clients, we offer several customization options to include the data and analysis of interest in the final deliverable.

Some of the customization requests are as mentioned below –

Segmentation of choice – Our clients can seek customization to modify/add a market division for types/applications/end-uses/processes of their choice.

AI In Livestock Farming Pricing and Margins Across the Supply Chain, AI In Livestock Farming Price Analysis / International Trade Data / Import-Export Analysis

Supply Chain Analysis, Supply–Demand Gap Analysis, PESTLE Analysis, Macro-Economic Analysis, and other AI In Livestock Farming market analytics

Processing and manufacturing requirements, Patent Analysis, Technology Trends, and Product Innovations

Further, the client can seek customization to break down geographies as per their requirements for specific countries/country groups such as South East Asia, Central Asia, Emerging and Developing Asia, Western Europe, Eastern Europe, Benelux, Emerging and Developing Europe, Nordic countries, North Africa, Sub-Saharan Africa, Caribbean, The Middle East and North Africa (MENA), Gulf Cooperation Council (GCC) or any other.

Capital Requirements, Income Projections, Profit Forecasts, and other parameters to prepare a detailed project report to present to Banks/Investment Agencies.

Customization of up to 10% of the content can be done without any additional charges.

Note: Latest developments will be updated in the report and delivered within 2 to 3 working days.

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