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Global Artificial Intelligence in Agriculture Market Size study, by Technology (Machine Learning, Computer Vision, Predictive Analytics), by Offering (Hardware, Software, AI-as-a-Service, Services), By Application (Precision Farming, Agriculture Robots, Livestock Monitoring, Drone Analytics, Labor Management, Others) and Regional Forecasts 2022-2028

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Abstracts

Global Artificial Intelligence in Agriculture Market is valued at approximately USD 1.0 billion in 20211 and is anticipated to grow with a healthy growth rate of more than 25.5% over the forecast period 2022-2028. Artificial Intelligence in Agriculture describes as the adoption of novel and advancing technologies to solve traditional farming complications. AI systems aids to boost harvest quality and accuracy, which is also known as precision agriculture. In addition, it also detects any disease in plants, pests, and poor nutrition of farms, and can also target weeds and decide which herbicide to use in the area. The rising deployment of data generation through sensors and aerial images for crops, as well as regulatory support to adopt modern agricultural techniques are stimulating the market demand. Moreover, the growing population is putting strain on the global food supply chain, which is leading the higher crop production. According to the united nation, there are nearly 7.3 billion people around the world and it is expected to rise to around 9.7 billion people by 2050. Therefore, these factors may boost the global market demand in the near future. However, high costs are involved for gathering precise field data impedes the growth of the market over the forecast period of 2022-2028. Also, the rising adoption of AI solutions to manage small farms (less than 5 hectares) is anticipated to act as a catalyzing factor for the market demand during the forecast period.

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The key regions considered for the Global Artificial Intelligence in Agriculture Market study include Asia Pacific, North America, Europe, Latin America and Rest of the World. Europe is the leading region across the world in terms of market share owing to the rising inclination towards the monitoring and reporting tools for indoor and outdoor farms and growing need for the visualization of overall crop production by using computer vision and AI. Whereas, Asia-Pacific is also anticipated to exhibit the highest CAGR over the forecast period 2022-2028. Factors such as the highest crop production in the regions such as India and China, as well as rising government support for the adoption of novel agricultural techniques would create lucrative growth prospects for Artificial Intelligence in Agriculture market across the Asia-Pacific region.
Major market players included in this report are:
International Business Machines Corp. (IBM)
Microsoft Corporation
Vision Robotics Corporation
Deere & Company
Precision Hawk Inc.
Granular, Inc.
Cainthus Corporation
The Climate Corporation
Vision Robotics Corporation
Descartes Labs, Inc.

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:
By Technology
Machine Learning
Computer Vision
Predictive Analytics
By Offering:
Hardware
Software
AI-as-a-Service

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Services
By Application
Precision Farming
Agriculture Robots
Livestock Monitoring
Drone Analytics
Labor Management
Others
By Region:
North America
U.S.
Canada
Europe
UK
Germany
France
Spain
Italy
ROE

Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC
Latin America
Brazil
Mexico
Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018, 2019, 2020
Base year – 2021
Forecast period – 2022 to 2028

Target Audience of the Global Artificial Intelligence in Agriculture Market in Market

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Study:

Key Consulting Companies & Advisors
Large, medium-sized, and small enterprises
Venture capitalists
Value-Added Resellers (VARs)
Third-party knowledge providers
Investment bankers
Investors

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