



SLCM GROUP IN NEWS

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CXO Today	Dec 28, 2024	Worldwide	Read More

The screenshot displays the CXOtoday.com website interface. At the top, there is a navigation menu with categories like 'News & Analysis', 'Interviews', 'Expert Opinion', 'Case Studies', 'Specials', 'CXO Bytes', 'Newsletter', and 'More'. A search icon is visible on the right. The main content area features an article titled 'AI in Agri Risk Management: Reducing Losses through Precision Interventions' by Prashant Sharma, published 2 days ago. The article discusses the challenges of agriculture, such as crop production, storage, and transportation risks, and highlights the role of AI in precision interventions to reduce post-harvest losses. A section titled 'Understanding Post-harvest Losses' lists factors like quality checks, storage conditions, logistical challenges, and market inefficiencies. On the right side, there is a 'PRESS RELEASE' section with several news items, including 'Kaspersky discovers new scam scheme targeting businesses on social media', '2nd Year Scaler School of Technology Students Build Advanced Gen AI Tool to Transform Tech Learning and Career Prep', 'STMicroelectronics introduces first STM32-ready wireless IoT modules leveraging collaboration with Qualcomm', 'Beyond Key Achieves SOC2 Type 2 Compliance, Strengthening Client Trust and Data Security', 'Fraud Hotspots: Insights from IDfy's Latest Study Reveal Dynamic Shifts Every Quarter', and 'Value Reimagined'.

The Role of AI in Mitigating Post-Harvest Risks

Artificial Intelligence offers a range of application to tackle challenges head-on, by data-driven insights with real-time actionability.

- AI-Based Quality Check:** AI-powered quality checks for food grains represent a paradigm shift in the agricultural industry, offering precision and sustainability. By leveraging these technologies, stakeholders across the supply chain can ensure better quality, minimize losses and efficiency in quality evaluation. These AI based QC systems not only deliver faster and more accurate results but also offer greater convenience with lower logistical demands, making them highly accessible and efficient.
- Predictive Analytics for Storage:** AI-based predictive analytics is revolutionizing the way warehouses manage stored commodities by using advanced algorithms, machine learning, and big data to forecast potential issues, optimize storage conditions, and improve overall operational efficiency. By analyzing large datasets, including environmental factors, historical trends, and real-time data, AI enables warehouses to make proactive decisions that reduce risks, enhance quality control, and streamline inventory management.
- Market Intelligence and Pricing Forecasts:** AI processes vast amounts of market data to offer actionable insights. By understanding pricing trends and consumer demand, farmers can time their market entry for maximum profitability, avoiding the pitfalls of unsold inventory or market saturation.

Benefits of AI-Driven Interventions

Adopting AI for post-harvest risk management yields numerous benefits:

- Reduction in Losses:** AI's precision enables early detection and prevention of risks, significantly reducing spoilage and wastage.
- Cost Efficiency:** By optimizing storage and logistics, AI minimizes resource wastage, cutting down operational costs for farmers and supply chain stakeholders.
- Sustainability:** Precision interventions reduce the environmental footprint of agriculture by curbing excessive use of resources like water, energy, and chemicals.
- Enhanced Profitability:** By ensuring that more produce reaches the market in optimal condition and at the right time, farmers and traders will automatically see an increase in profitability.

Foreshadowing Innovations in the Sector

Forward-thinking organizations are at the forefront of adopting and leveraging AI based solutions to address post-harvest challenges. These entities are developing integrated systems that combine predictive analytics, IoT, and ERPs to create seamless and efficient supply chains.

AI-powered warehouse management systems are being refined to adapt dynamically to the probabilistic fluctuations in ecosystem for Agri commodities like environmental conditions, traffic, inward and outward movement of commodities, commodity wise consumption rates in a region or geography etc. ensuring that commodities reach their destinations in the best possible condition.

These innovations and cutting-edge technology reflect a broader commitment and ease to bridging the gap between traditional agricultural practices and its optimal throughput. The goal is not merely to reduce losses but to empower farmers and stakeholders with technology that strengthen income parity and enhance decision-making and overall efficiency of Agri supply chain.

Conclusion

AI has ushered in a new era of precision in the Agri supply chain, offering transformative solutions to the persistent problems of post-harvest losses. By enabling smarter storage, streamlined logistics, and data-driven market strategies, AI empowers farmers to mitigate risks and maximize their returns.

The path forward lies in fostering innovation, building collaborative ecosystems, and ensuring equitable access to these AI based advanced tools. With AI as an ally, the agricultural sector can look toward a future where losses are minimized, profits are maximized, and sustainability becomes the norm.

(The author is Prashant Sharma, Chief Technology Officer, Sohan Lal Commodity Management Limited, and the views expressed in this article are his own)



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