

Can AI Bridge Global Food Security Gaps?

New initiatives and platforms demonstrate AI's transformative role in agriculture.

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THE DATA

5.9 lakh

Farmers Served by AI Platform

India's BharatVistaar platform showcases AI's direct impact on agricultural decision-making and resource access for millions.

This multilingual Artificial Intelligence-powered Digital Public Infrastructure offers real-time, location-specific agricultural advisories and connects farmers with essential government schemes. The platform has successfully addressed over 93 lakh farmer queries, demonstrating AI's critical role in enhancing productivity and farmer well-being at scale.



Source: PIB (Press Information Bureau, Government of India) · Published August 11, 2026 [BREAKING]

01

AI Driving Precision Agriculture for Global Resilience

The integration of AI, IoT, and robotics is enabling unprecedented precision in farming, from optimizing water and fertilizer use to advanced pest detection. This technological shift is critical for building resilient agricultural systems that can adapt to climate change and meet rising global food demands. Land-grant universities, like Penn State, are actively showcasing these robotic and automation advances, addressing labor shortages and improving efficiency in farming operations.



02

Collaborative Innovation Accelerates AgTech Adoption

International partnerships and government initiatives are key to scaling AI solutions across the agricultural sector. Collaborations, such as between Uzbekistan and UC Berkeley, focus on developing AI-based decision-making tools and strengthening technological skills in the agricultural sector. Simultaneously, national efforts like the USDA's Agricultural National Science & Technology Challenge seek AI solutions for integrating diverse data to accelerate crop development.

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