



AGRO-ECONOMIC RESEARCH CENTRE
Ministry of Agriculture and Farmers' Welfare
Government of India
VISVA-BHARATI
Santiniketan



Abstract: Agriculture is under growing pressure from climate change, rising populations, and limited natural resources, making innovation essential for sustainable food systems. Artificial intelligence (AI) and machine learning (ML) are emerging as powerful tools to help farmers and policymakers alike. On the farm, AI supports smarter crop management, pest detection, yield forecasting, and resource use, enabling higher productivity with lower environmental costs. In the policy arena, these same technologies are reshaping economic research and decision-making. By distinguishing between prediction tasks and causal analysis, AI methods can guide evidence-based policies that balance efficiency with fairness. For example, predictive models can anticipate shifts in housing or labor markets, while causal approaches help evaluate the impacts of interventions such as job training programs or minimum wage changes. When applied to agricultural economics, these tools can inform resource allocation, subsidy design, and climate adaptation strategies. Together, AI-driven insights in agriculture and economics highlight a path toward more resilient food systems and more responsive public policies, ensuring that technological progress translates into tangible benefits for communities and economies worldwide.

EXPERT'S TALK

on

"Artificial Intelligence (AI) in Agriculture, Economics and Econometrics"

by

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**Venue: Seminar Hall,
Agro-Economic Research Centre**

Date: 28th January 2026

(Wednesday) Time: 03:00 PM

Chair : Professor Amit Kumar Hazra

Director of Studies, Educational Innovations and Rural
Reconstruction, Visva-Bharati

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