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NATIONAL WORKSHOP ON AI FOR AGRICULTURE: DATA-DRIVEN DIGITAL INNOVATIONS FOR TRANSFORMING AGRIFOOD SYSTEMS

15th May, 2026 at
Krishna Auditorium, RARS, ANGRAU, Lam, Guntur.

Registration Form

Name:

Age:Gender:

Designation & Office:

Address:
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Mobile No.: Email ID:

Signature of Participant

All correspondence regarding the workshop must be made to nwaia2026@angrau.ac.in and for accommodation and transport to deanaet@angrau.ac.in

For further details contact:7093403883

9848390891

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CGIAR
DIGITAL
TRANSFORMATION



National Workshop on AI for Agriculture: Data-Driven Digital Innovations for Transforming Agrifood Systems 15th May, 2026



Organised by

Acharya N. G. Ranga Agricultural University
Lam, Guntur – 522 034, Andhra Pradesh.
&
ICRISAT, Hyderabad

**Venue: Krishna Auditorium, RARS, ANGRAU, Lam,
Guntur.**

**ACHARYA N.G. RANGA AGRICULTURAL UNIVERSITY
LAM, GUNTUR, ANDHRA PRADESH**

Introduction:

Indian agriculture is at a critical stage, facing challenges like climate change, resource degradation, production risks, and changing market systems. In this situation, Artificial Intelligence (AI) and digital technologies are becoming important tools to improve productivity, support better decision-making, and promote sustainable agriculture.

Farming is gradually moving towards precision and data-based practices using AI, Machine Learning (ML), IoT, remote sensing, robotics, and GIS tools. Although agriculture supports about 42–45% of India's workforce, it contributes only 15–18% to the economy, showing low productivity. Climate change may reduce crop yields by 10–25% by 2050. Agriculture uses about 80–85% of freshwater. Its efficient use assumes important.

Recent digital initiatives have created large datasets, including over 8.48 crore Farmer IDs and around 20 crore mapped land parcels. Studies show that AI technologies can increase yields by 15–30% and reduce input costs by 20–40%. However, the use of tools like AI, drones, and IoT is still below 20%, indicating a gap between technology development and its use in the field. Bridging this gap is essential to achieve sustainable, resilient, and inclusive agricultural growth.

Need for the Workshop

The proposed workshop will provide a platform for sharing knowledge on digital technologies in agriculture. It aims to connect research with field use, especially for small and marginal farmers, and support initiatives like the Digital Agriculture Mission and AgriStack.

The workshop will focus on climate-resilient farming using weather-based advisories, predictive tools, and real-time decision support. AI-based solutions can help improve productivity, reduce costs, and use resources more efficiently.

It will also build capacity in AI and digital agriculture among scientists, students, extension staff, and policymakers. The programme will encourage collaboration among universities, ICAR institutes, government agencies, industry, and agri-tech startups. Moreover, the workshop will support the transformation of Indian agriculture into a more resilient, inclusive, and sustainable system aligned with national priorities and Sustainable Development Goals.

Objective of the Workshop:

- ❖ To enhance awareness among stakeholders on the transformative potential of Artificial Intelligence and digital technologies in improving agricultural decision-making and farm resilience.
- ❖ To disseminate knowledge on emerging digital tools, data platforms, and AI-enabled advisory systems for sustainable agriculture.
- ❖ To bring together academia, research organizations, extension agencies, financial institutions, startups, and farmer organizations to deliberate on opportunities, challenges, and policy frameworks in digital agriculture.
- ❖ To identify priority research and development areas and promote collaborative efforts for responsible, ethical, and scalable adoption of AI in agriculture.
- ❖ To generate strategic recommendations and actionable outcomes to support digital transformation of the agricultural sector.

Scientific Sessions and Panel Discussion

The scientific sessions are designed to bring together leading researchers, academicians, industry experts, policymakers, and practitioners to share cutting-edge knowledge and innovations in digital agriculture. These sessions will include keynote lectures, invited talks, and technical presentations focusing on recent advancements, emerging technologies, and practical applications of AI across the agricultural value chain.

The panel discussion will feature distinguished experts from academia, industry, government, and international development organizations. The discussion will address contemporary challenges, policy imperatives, ethical considerations, and future opportunities for AI-driven agricultural transformation. It will facilitate interdisciplinary dialogue and promote strategic partnerships for scaling digital agriculture solutions.

Accommodation

Accommodation will be arranged for registered delegates on a first-come, first-served basis in nearby guesthouses and hotels, with tariffs ranging from Rs. 2,500 to Rs. 5,000 per day per head. Requests for accommodation may be submitted on or before 08/05/2026.

Host Organisation

Acharya N. G. Ranga Agricultural University (ANGRAU) was established as Andhra Pradesh Agricultural University in 1964 under the APAU Act, 1963, and was renamed in 1996 in honour of Acharya N. G. Ranga.

Headquartered at Lam, Guntur, the University serves the farming community and students across 26 districts of Andhra Pradesh. It comprises seven Agricultural Colleges, two Agricultural Engineering Colleges, two Food Science & Technology Colleges, one Community Science College, one Post Graduate Centre, and eighteen Polytechnics, along with six affiliated colleges and forty-two affiliated polytechnics.

ANGRAU has a strong research and extension network with six Regional Agricultural Research Stations, twenty-seven Agricultural Research Stations, thirteen Krishi Vigyan Kendras, and thirteen DAATTCs, supporting agricultural research, education, and technology transfer in the state.

About ICRISAT

ICRISAT is a CGIAR research institute headquartered in Hyderabad, India, working across Asia and Africa to strengthen agriculture and rural livelihoods. ICRISAT works closely with governments, research organizations, development agencies, and farming communities on climate resilience, natural resource management, and sustainable agricultural development. The institute also has a strong focus on digital agriculture, artificial intelligence (AI), and climate information services (CIS) to support informed decision-making. Through its research and partnerships, ICRISAT contributes to improving productivity, resilience, and livelihoods in dryland regions.

This workshop is supported by the ICRISAT through CGIAR Digital Transformation Accelerator (DTA), which aims to accelerate the use of digital technologies, artificial intelligence, and data systems to transform agri-food systems and strengthen the resilience of farmers and rural communities.

About Guntur

Guntur is an important city in Andhra Pradesh, located near the Krishna River delta. It is known as the "Chilli Capital of India" for its large chilli production and one of Asia's biggest chilli markets. The region also grows rice, cotton, and tobacco.

Guntur has a hot climate with strong summers and seasonal rains. It has a rich history linked to ancient dynasties and the Palnadu War. Nearby Amaravati is a famous Buddhist site, and places like Undavalli Caves, Kondaveedu Fort, and Mangalagiri are popular attractions.

The city is also a prominent educational hub and is widely known for its delicious Andhra cuisine, especially gongura-based dishes and traditional pickles. With excellent road and rail connectivity, the city stands as a vibrant blend of agriculture, heritage, culture, and modern development.