

Ministry of Agriculture & Farmers Welfare Hosting A National Level Hackathon



KRITAGYA

A National Level Agtech Hackathon
Promoting Innovation in Farm
Mechanization

कृतज्ञ : कृषि तकनीक ज्ञान



Theme

Crop Area & Yield Estimation

Revamp crop yield estimation via remote sensing, machine learning, and data analytics in this hackathon, aiming for sustainable farming by replacing labor-intensive methods and addressing crop types and environmental variables.

Registration Starts from
15th September 2023

Brief

KRI-TA-GYA explains, KRI for Krishi (Agriculture), TA for Taknik (Technology) and GYA for Gyan (knowledge). This event will give an opportunity to the students/faculties/entrepreneurs/innovators and others to showcase their innovative approaches & technology solutions to promote Digital crop Survey.

Eligibility criteria

Students/faculties/innovators from any university/technical institution across the country can participate in the form of a group of up to 4 team members (maximum). Participation of at least one student in each group is mandatory.

Team Structure

This group will comprise a maximum of 4 participants, with not more than one faculty member and/or more than one innovator or entrepreneur. Participating students can collaborate with local start-ups/industry, students from universities, and technological institutes.

Event Framework

A two tier framework will be followed during the event. In tier two i.e 'Screening Round' after the registration, applicants will be screened out and called for technical presentation from the respective zones. In National Round Zonal level winners will be called for Grand Final to Showcase their solution.

Awards

Winners from the national level event, will be felicitated with cash prize and citations with participation certificate. Cash Prize will be INR 5 lakhs for 1st winner, 3 lakhs for 2nd and 1 lakh for 3rd winner



1ST 5,00,000

2ND 3,00,000

3RD 1,00,000

Stay Tuned

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Presentation -During Registration

Provide the concept note (PPT Presentation -Not more than 10 Slides-Should showcase Problem Statement, Solution Concept, Team, Background, Value Proposition and Way forward). Presentation to be prepared and uploaded in PPT Format only



Rounds of event

1. Registration and concept entries
2. Uploading concept Note by applicants
3. Zone level screening
4. Zone level evaluation (Technical Presentation by applicant)
5. National level finale (Final Presentation)
6. Award/Announcement of Results



Problem Statement for Crop Survey Hackathon

1. "Creating an Effective Crop Assessment Tool Using Geospatial Technology"
2. "AI-ML Decision System for Efficient Farming using Crop Survey Data"
3. "Predictive Analytics for Future Crop Yields from Survey Data"
4. "Automated Crop Identification System for Accurate Field Analysis"
5. "Robust Data System for Digital Crop Surveys in Low-Tech Farming"
6. "Innovative Drone Tech for Advanced Digital Crop Survey"
7. 5G Enabled Automated drone equipped with multispectral camera and others sensors for crop surveying, pest detection, Topographical Mapping, Drought Assessment, Harvesting support.
8. 5G enabled Drone with higher payload capability for Precision spraying (post to the survey/during survey)
9. 5G enabled AI powered wireless Camera Monitoring Crops/insects/pests : Insect recognition, Fruit detection, Anomaly detection during phenophases, actionable insights



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