

# HACKFEST INNOV8 TMRW

BUILD.BEYOND.INFINITY

## HACKATHON BROCHURE

STARTING FROM  
23RD FEBRUARY 2026

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# ◀◀◀ ABOUT US ▶▶▶

## COMPUTER ENGINEERING STUDENTS' ASSOCIATION

The Computer Engineering Students' Association (CESA) of Vidyalankar Institute of Technology, Mumbai is a student-driven technical body committed to nurturing innovation, collaboration, and industry-relevant skills among engineering students.

CESA bridges the gap between academic learning and real-world applications by organizing workshops, coding competitions, hackathons, seminars, and industry interaction sessions. Through these initiatives, students gain practical exposure, hands-on experience, and opportunities to work on real-life problem statements.

CESA's flagship annual technical fest, PLETHORA, brings together students, innovators, and technology enthusiasts to collaborate, compete, and create impactful solutions. With a strong focus on creativity, problem-solving, and leadership, CESA continues to empower students to thrive in today's evolving technological landscape.

# ◀◀ ABOUT US ▶▶

## VIDYALANKAR INSTITUTE OF TECHNOLOGY (VIT)

Established in 1999, Vidyalankar Institute of Technology (VIT) is a premier engineering institution affiliated with the University of Mumbai and approved by AICTE. The institute is dedicated to providing quality technical education that empowers students to meet the demands of a rapidly evolving world.

VIT emphasizes academic excellence, research, and innovation while fostering creativity, critical thinking, and industry readiness. Its experienced faculty, modern infrastructure, and strong industry collaborations create a dynamic and effective learning environment.

Beyond academics, VIT focuses on values-driven education, leadership, and community engagement. Through vibrant student initiatives and a strong alumni network, the institute continues to shape responsible professionals and future leaders who contribute to technological and societal growth.

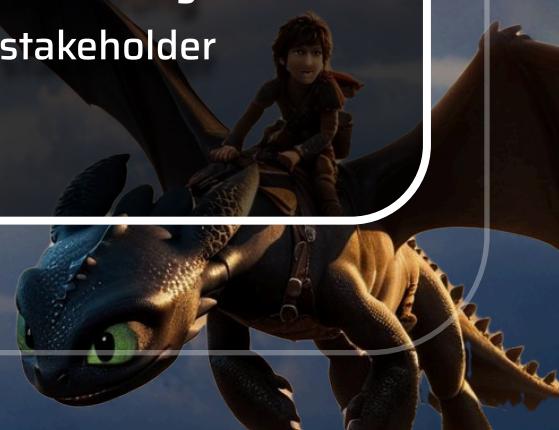
# PROBLEM STATEMENT I

## REIMAGINING AVIATION SAFETY THROUGH INTELLIGENT SYSTEMS

Every second counts in aviation. From subtle anomalies in engine telemetry to high-stakes cockpit decisions and coordinated post-crash rescue efforts, even a minor lapse can escalate into catastrophe. As global air traffic continues to grow, aviation safety demands intelligent, interconnected systems that go beyond reactive investigation and move toward proactive risk anticipation and structured emergency orchestration.

**AeroGuardian 2026** challenges participants to conceptualize a comprehensive, technology-driven framework that strengthens aviation safety across prevention, in-flight assistance, and coordinated response.

Submissions will be evaluated on depth of problem understanding, clarity and coherence of the proposed system architecture, integration of relevant technologies, feasibility within real aviation ecosystems, and the overall strategic impact of the idea. Strong emphasis will be placed on logical flow, stakeholder awareness, and scalability potential.



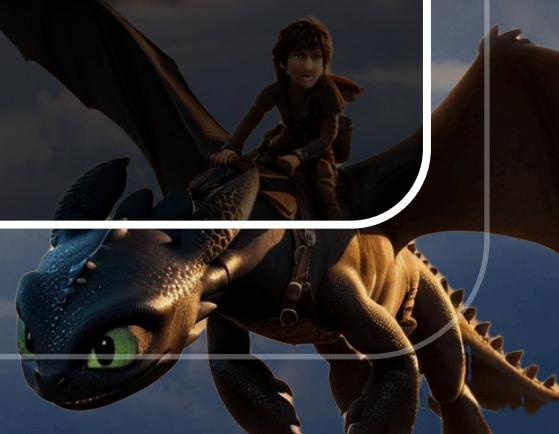
# PROBLEM STATEMENT 2>>

## INTELLIGENT FARMER INVENTORY & MARKET STABILITY MANAGEMENT SYSTEM

Across agricultural economies, farmers often suffer income instability not because of low yield, but due to fragmented market systems, inefficient storage practices, unpredictable pricing, and limited access to real-time demand intelligence. Post-harvest losses and distress selling continue to erode financial security and weaken rural supply chains.

**FarmFlow 2026** invites participants to design a structured, technology-enabled framework that improves inventory transparency, strengthens price intelligence, and enhances coordination between farmers, warehouses, and markets.

Ideas will be assessed based on clarity of economic reasoning, innovation in addressing supply chain inefficiencies, realism of implementation across rural settings, scalability of the proposed model, and the potential measurable impact on farmer income stability and market transparency.



# PROBLEM STATEMENT 3>>>

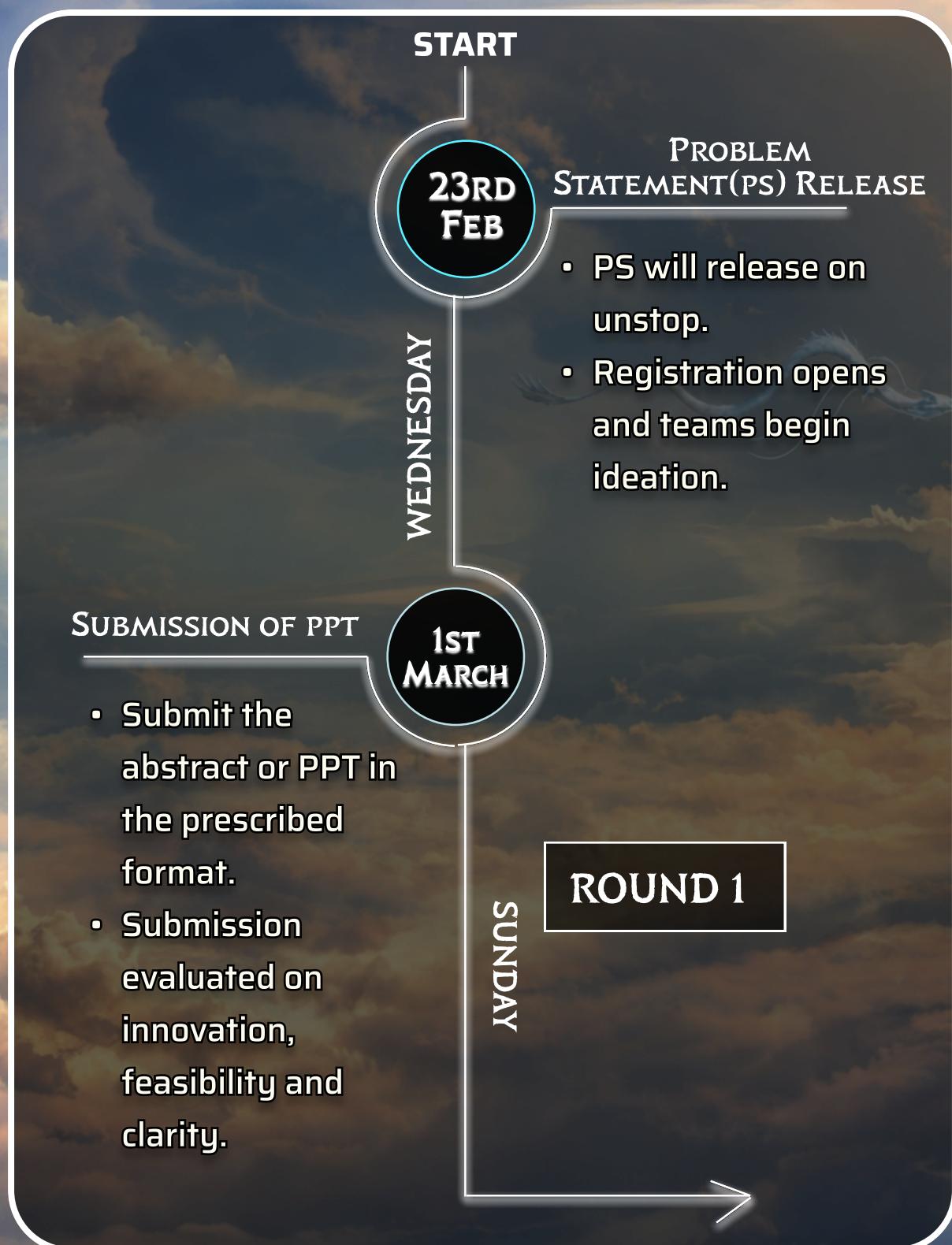
## Post-Heart Attack Recovery & Relapse Monitoring Intelligence System

Surviving a heart attack marks the beginning of a critical recovery journey. Yet many patients experience a second cardiac event within months due to inconsistent follow-ups, medication non-adherence, lifestyle relapse, and limited structured monitoring after discharge. The challenge lies not in emergency intervention, but in sustaining accountability beyond hospital walls.

**CardioTrack 2026** challenges participants to conceptualize a structured recovery intelligence framework that bridges the gap between hospital discharge and long-term rehabilitation through coordinated monitoring, adherence reinforcement, and relapse risk identification.

Submissions will be evaluated on clinical relevance, logical robustness of the proposed monitoring model, ethical considerations, feasibility within healthcare systems, scalability, and clarity of presentation. The emphasis will be on well-reasoned, implementable frameworks rather than purely theoretical concepts.

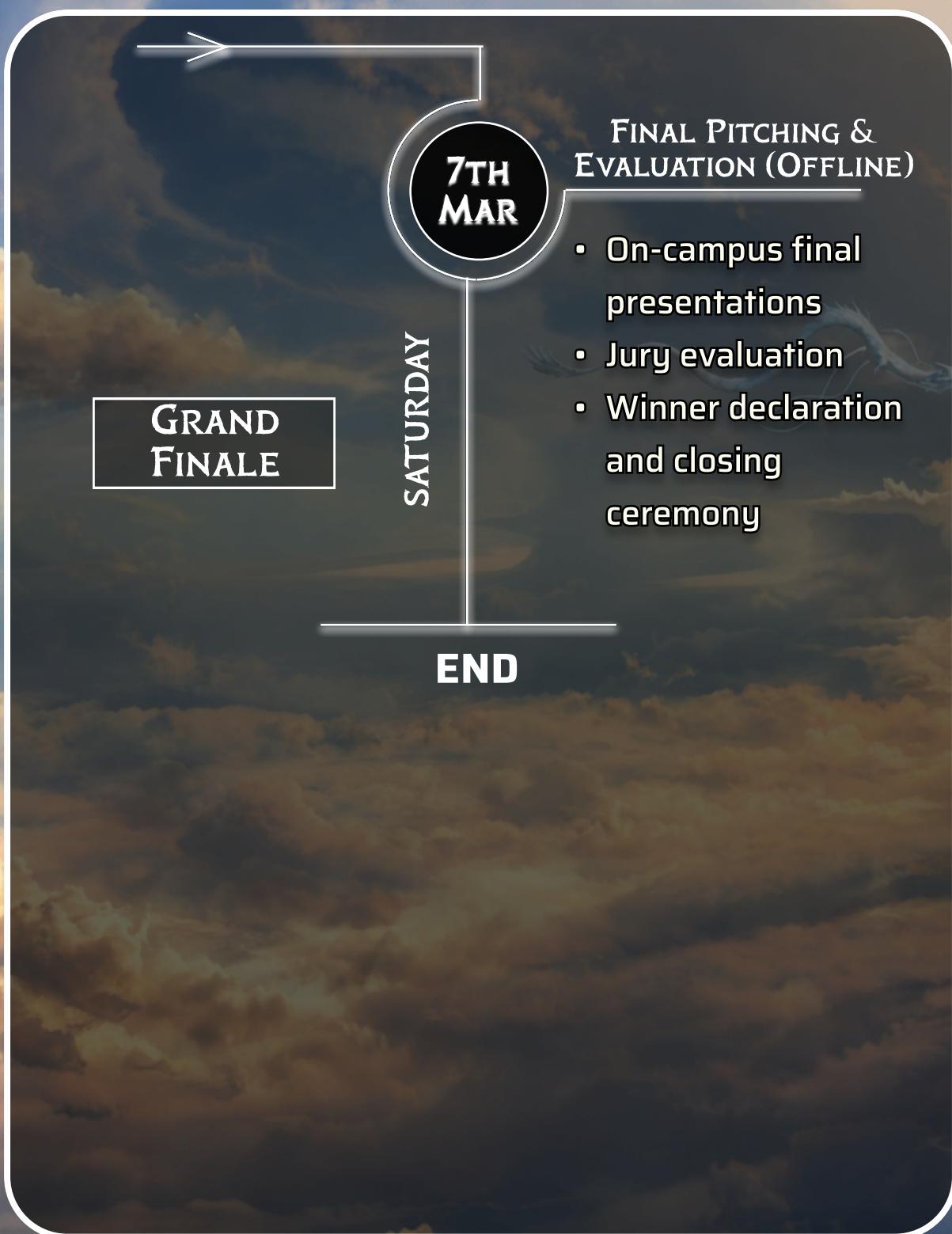
# ◀◀ EVENT FLOW ▶▶



# ◀◀ EVENT FLOW ▶▶



# ◀◀ EVENT FLOW ▶▶



◀◀◀ **PRIZE POOL** ▶▶▶



**₹28K**



# ← OUR SPONSORS →

## TECHNICAL SPONSORS



## IMPACT SPONSORS



# RULES

- Teams must adhere strictly to all submission deadlines. Late submissions will not be accepted under any circumstances
- Round 1 requires only idea submission in the prescribed PPT format. No prototype or MVP is required at this stage. Plagiarism or copied content will lead to disqualification.
- Only shortlisted teams are required to pay the ₹200 confirmation fee. Failure to confirm within the given timeline will result in disqualification.
- Attendance for the Online Mentoring Session is mandatory. The Team Leader and at least one additional member must be present.
- All shortlisted teams must be physically present on campus on 7th March for Round 2 and Round 3. No accommodation will be provided.

The decision of the jury and organizing committee will be final and binding in all matters related to the hackathon.

# CONTACT US

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## JOIN US



**REGISTER NOW**

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