



## #LetsDiveIn

Website: <https://quasarhacks.vercel.app>

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# Introduction to Quasar x AI 2026

Welcome to Quasar x AI 2026, an exhilarating inter-college hackathon that unites students passionate about artificial intelligence from universities across the region. This dynamic event, tailored for builders, researchers, and learners, focuses on crafting AI-powered solutions with tangible real-world impact. Participants will engage in an exciting journey beginning with an online submission round, culminating in a high-energy, 24-hour on-campus finale at IIIT Ranchi.

## Event Highlights

Quasar x AI 2026 promises a vibrant, collaborative atmosphere enriched with mentorship, workshops, and invaluable judge feedback. The event is not only a platform for innovation but also a hub of networking and fun, featuring a prize pool of ₹15,000, along with food, refreshments, awards, goodies, and stickers.

Organized by the Indian Institute of Information Technology (IIIT) Ranchi and the Institution Innovation Council (IIC), in collaboration with House of Geeks (HG) and AI Summit / AI Impact, Quasar ensures a seamless experience through comprehensive venue support, technical coordination, outreach, and volunteer engagement.

# Theme: AI for Economic & Social Good

This year's theme, "AI for Economic & Social Good," challenges participants to design AI solutions that enhance economic opportunities or social welfare. Teams are invited to explore diverse domains such as healthcare, financial inclusion, education, agriculture, accessibility, and disaster response. Each project should not only highlight its AI components but also articulate measurable social or economic benefits.

For more details and to register visit our website

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## Problem Statement Guidelines

### Open Innovation Challenge Across All Technical Domains

Quasar x AI 2026 embraces the spirit of open innovation across **all technical domains**! We believe that the best solutions come from unrestricted creativity and diverse perspectives spanning **web development, app development, IoT, robotics, cybersecurity, machine learning, artificial intelligence, and hardware-software integration**. Therefore, we're offering participants the freedom to work on **any technical domain** of their choice, with only two essential requirements:

#### Core Requirements

1. **AI Integration:** Your solution must incorporate artificial intelligence technologies in a meaningful way within your chosen technical domain
2. **Theme Alignment:** Your project must align with our theme of "AI for Economic and Social Good"

#### Suggested Technical Domains & Applications

While you have complete freedom to choose your domain, here are technical areas where AI can make significant impact:

### 1. Web Development & AI

**Focusing on scalable, browser-based solutions that bridge the gap between information and impact.**

- **AI-powered web applications for social good:** Large-scale platforms for community organizing and resource allocation.
- **Intelligent content management systems (CMS):** Systems that automatically categorize and localize social impact data.
- **Automated accessibility tools:** Using AI to ensure websites meet WCAG standards for users with impairments.

- **AI-driven e-commerce for economic empowerment:**
  - ***Inclusive Economic Growth:*** AI tools to help MSMEs (Micro, Small, and Medium Enterprises) optimize pricing and reach global markets.

## 2. App Development & AI

**Mobile-first solutions designed to put intelligent tools directly into the hands of users globally.**

- **Mobile apps with integrated machine learning:** On-device AI for offline functionality in low-connectivity areas.
- **AI-powered health and wellness apps:**
  - ***Healthcare & Public Health:*** Preventive care monitors and mental health support chatbots.
- **Educational platforms with intelligent tutoring:** Personalized learning paths to improve literacy and technical skills.
- **Financial inclusion apps:** AI-driven credit scoring for the unbanked and personalized financial literacy insights.

## 3. IoT & AI Integration (Smart Systems)

**Connecting the physical world to digital intelligence for environmental and urban management.**

- **Smart city solutions:** Using AI analytics to optimize traffic, waste management, and energy usage.
- **Environmental monitoring IoT:** *Sustainable Agriculture:* Real-time soil sensors and weather stations for climate-resilient farming.
- **Healthcare IoT devices:** Wearables that provide AI-driven diagnostics and remote patient monitoring.
- **Agricultural IoT platforms:** Predictive analytics for crop yields and water conservation.

## 4. Robotics & AI

**Physical automation designed to assist, protect, and provide for vulnerable populations.**

- **Autonomous systems for social service delivery:** Drones or ground robots delivering medicine to remote areas.
- **Assistive robotics:** ***Social Care:*** Exoskeletons and robotic limbs for differently-abled individuals.
- **Agricultural robots:** AI-driven weeding, harvesting, and precision spraying to enhance farmer livelihoods.
- **Healthcare robots:** Robotic assistants for elder care and supporting hospital staff in high-stress environments.

## 5. Cybersecurity & AI

## Protecting the digital infrastructure of social enterprises and ensuring user trust.

- **AI-powered threat detection:** Real-time monitoring of community networks against cyber-attacks.
- **Intelligent fraud prevention:** Safeguarding financial inclusion platforms from predatory digital scams.
- **Privacy-preserving AI:** Using federated learning to train healthcare models without exposing sensitive patient data.
- **Automated vulnerability assessment:** Proactive security for government and NGO web portals.

## 6. Hardware-Software AI Solutions

Custom-built hardware integrated with AI to solve specific local or physical challenges.

- **Embedded AI systems:** Low-power AI chips in devices used for community safety or data collection.
- **AI-enabled assistive technologies:** Smart glasses for the visually impaired or AI-powered hearing aids.
- **Intelligent sensor networks:** *Community Well-being:* Sensors to monitor air quality or water potability in underserved neighborhoods.

## 7. Machine Learning & AI Applications

The foundational models and data strategies that drive intelligence across all other domains.

- **Predictive analytics for social good:** *Sustainable Agriculture:* Supply-chain efficiency models to reduce food waste and improve farmer profits.
- **Natural language processing (NLP):** Translation tools for minority languages to increase healthcare and legal accessibility.
- **Computer vision:** AI-powered diagnostic imaging for early disease detection in rural clinics.
- **Deep learning for economic optimization:** *Inclusive Growth:* Models that predict job market trends to assist in workforce retraining and local economic resilience.

## Evaluation Criteria

Your projects will be evaluated based on:

- **Technical Innovation:** Creativity and originality in your chosen domain
  - **AI Implementation:** Quality and effectiveness of AI integration
  - **Social Impact:** Potential to create positive change through technology
  - **Domain Expertise:** Depth of technical knowledge in your chosen field
  - **Feasibility:** Practicality and scalability across technical domains
  - **Presentation:** Clarity and effectiveness of project demonstration
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# Event Schedule & Timeline

## Registration Phase

- **Registration Period:** January 5-10, 2026
- **Platform:** Unstop
- **Registration Fee:** ₹500 per team
- **Team Size:** 1-5 members
- **Open to:** All technical domains (web dev, app dev, IoT, robotics, cybersecurity, AI/ML, hardware-software)

## Round 1: Online Submission

- **Submission Period:** January 15-18, 2026
- **Format:** PowerPoint presentation and video submission showcasing your technical domain expertise
- **Evaluation:** Online review by expert judges from various technical fields

## Results Announcement

- **Date:** January 20, 2026
- **Notification:** Selected teams will be contacted for Round 2

## Grand Finale: 24-Hour Hackathon

- **Dates:** January 30-31, 2026
- **Duration:** 24 hours of intensive coding and development across all technical domains
- **Location:** IIIT Ranchi Campus
- **Format:** On-site hackathon with mentorship and support for all technology areas

## Schedule of the 30<sup>th</sup> - 31<sup>st</sup> Jan

### Day 1: January 30th - Hackathon Commencement

Time	Activity	Duration
9:00 AM - 10:00 AM	Entry	1 hour
10:00 AM	Hackathon Starts	3 hours (Initial Hacking)
1:00 PM - 2:00 PM	Lunch	1 hour
5:00 PM - 5:30 PM	Snacks	30 mins (Inferred)
8:00 PM - 9:00 PM	Dinner	1 hour (Inferred)
12:00 AM - 12:30 AM	Midnight Snacks	30 minutes
All Night	Hacking/Coding Session	13 hours (Until 10:00 AM Day 2)

## Day 2: January 31st - Judging and Conclusion

The second day focuses on the final hours of coding, followed by presentations, judging, and the conclusion of the event.

Time	Activity	Duration
9:00 AM - 10:00 AM	Breakfast	1 hour
10:00 AM	Hacking Session Ends / Code Freeze	Instantaneous
11:00 AM - 12:00 PM	Presentation (PPT) and Initial Judging	1 hour
12:00 PM - 1:00 PM	Lunch	1 hour
1:00 PM - 3:00 PM	Judging Continues	2 hours
4:00 PM - 5:00 PM	Award Ceremony	1 hour

We hope you have a productive and enjoyable time at the hackathon! Remember to collaborate effectively, think creatively, and most importantly, have fun!

## What to Expect During the Finale

- **Expert Mentors:** Industry professionals from web dev, app dev, IoT, robotics, cybersecurity, AI/ML, and hardware domains
  - **Technical Support:** HG and IIC members available for assistance across all technical areas
  - **Food & Refreshments:** Meals and snacks provided throughout the event
  - **Networking Opportunities:** Connect with fellow participants and industry experts from diverse technical backgrounds
  - **Awards Ceremony:** Recognition and prizes for outstanding projects across all domains
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## Prizes & Rewards

### Prize Pool: ₹15,000

#### **First Place: ₹6,000**

- Cash prize
- Winner's trophy
- Certificate of excellence
- Special recognition across technical domains

#### **Second Place: ₹4,000**

- Cash prize
- Runner-up trophy
- Certificate of achievement
- Special recognition

#### **Third Place: ₹3,000**

- Cash prize
- Third place trophy
- Certificate of participation
- Special recognition

#### **Track-Based Awards: ₹2,000**

- **Best Web Development Solution**
- **Best AI/ML Implementation**

## Additional Rewards for All Participants

- **Certificates:** Official participation certificates
- **Goodies:** Exclusive Quasar x AI 2026 merchandise
- **Stickers:** Collectible event stickers

- **Networking:** Access to industry professional network across all technical domains
- **Learning:** Workshops and mentorship sessions covering multiple technology areas
- **Fun Activities:** Games, entertainment, and team-building events

## Special Recognition Categories

- **Best Innovation Award** (across all technical domains)
- **Most Impactful Solution Award**
- **Best Technical Implementation Award**
- **People's Choice Award**
- **Best Cross-Domain Integration Award**

All winners will receive additional recognition through:

- Social media features highlighting their technical expertise
- Website showcases demonstrating domain-specific innovations
- Industry networking opportunities across web dev, app dev, IoT, robotics, cybersecurity, and AI/ML sectors
- Potential internship and job referrals in their chosen technical domain

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# Registration & Contact Information

## How to Register

**Registration Platform:** Unstop

**Registration Link:**

[https://unstop.com/o/gyGNF78utm\\_medium=Share&utm\\_source=houseofg77083&utm\\_campaign=Online\\_coding\\_challenge](https://unstop.com/o/gyGNF78utm_medium=Share&utm_source=houseofg77083&utm_campaign=Online_coding_challenge)

## Registration Details

- **Fee:** ₹500 per team
- **Team Size:** 1-5 members
- **Registration Period:** January 5-10, 2026
- **Payment:** Online through Unstop platform
- **Open to:** All technical domains and skill levels

## Important Information

### Expert Judging Panel

Our hackathon features a distinguished panel of judges from academia across **web development, app development, IoT, robotics, cybersecurity, AI/ML, and hardware-software integration** who will evaluate projects based on innovation, technical excellence, and social impact potential within each domain.



## Comprehensive Support System

- **IIC Members:** Available for guidance and administrative support across all technical domains
- **House of Geeks Team:** Technical assistance and mentorship for web dev, app dev, IoT, robotics, cybersecurity, and AI/ML projects
- **Organizing Committee:** 24/7 support during the event for all technical challenges
- **Unstop:** End-to-end platform support for registrations, team formation, submissions and announcements.

## Event Coordination

Everything is meticulously planned and well-coordinated to ensure a smooth, enjoyable, and productive experience for all participants across every technical domain. Our dedicated team is committed to making Quasar x AI 2026 an unforgettable event for developers, engineers, and innovators from all technology backgrounds.

## Stay Connected

**Official Website:** <https://quasarhacks.vercel.app>

For any queries, technical support across any domain, or additional information, our team is always ready to help. Join us in this incredible journey of innovation and discovery across all technical frontiers!

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## About the Organizers

### Primary Organizers

#### Indian Institute of Information Technology (IIIT) Ranchi

IIIT Ranchi stands as a premier institution dedicated to excellence in information technology education and research. Known for fostering innovation and technical expertise across domains like **software development, cybersecurity, AI/ML, IoT systems, and robotics**, IIIT Ranchi has consistently produced graduates who make significant contributions to diverse technology sectors including web development, mobile applications, hardware-software integration, and emerging tech fields.

#### Institution's Innovation Council (IIC)

The Institution's Innovation Council, established under the Ministry of HRD Initiative, serves as a catalyst for promoting innovation and entrepreneurship within academic institutions across all technical domains. IIC plays a crucial role in nurturing creative thinking and supporting student-led initiatives in **web development, app development, IoT, robotics, cybersecurity, AI/ML, and hardware-software solutions**.

### Collaborating Partners

## House of Geeks (HG)

House of Geeks is the dynamic technical society of IIIT Ranchi, dedicated to promoting technical excellence and innovation among students across multiple domains including **web development, mobile app development, IoT projects, robotics competitions, cybersecurity challenges, machine learning workshops, and hardware-software integration projects**. HG organizes various technical events, workshops, and competitions that help students enhance their skills in diverse technological areas and stay updated with the latest trends in web dev, app dev, IoT, robotics, cybersecurity, and AI/ML.

## AI Impact Summit

AI Impact Summit is a prestigious platform that brings together AI enthusiasts, researchers, and industry leaders from various technical domains including **web development with AI integration, AI-powered mobile applications, IoT-AI convergence, robotics and automation, cybersecurity with machine learning, and hardware-software AI solutions**. Their collaboration ensures that Quasar x AI 2026 maintains the highest standards of technical excellence and industry relevance across all technology domains.4

## Platform Partner: Unstop

Our platform partner, **Unstop**, is committed to fostering innovation and collaboration. They provide cutting-edge solutions that drive success and empower users to reach their full potential. With Unstop, we're able to deliver exceptional experiences and seamless integration, ensuring that our community thrives in a dynamic digital landscape.

QUASAR  
X AI 2026



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## Platform Partner



# Contact Us

If you still have questions or queries, please feel free to reach out to us. We are here to help!

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We look forward to hearing from you!

Ready to shape the future with AI across all technical domains? Whether you're into web dev, app dev, IoT, robotics, cybersecurity, AI/ML, or hardware-software integration - Register now and be part of Quasar x AI 2026!