

**Report**

**INNOVATE-A-THON**



JUIT organised INNOVATE-A-THON in collaboration with ACM, IEEE JUIT SB, SIAM, Technical science club, JYC and Technology and Innovation Entrepreneurship Development Cell (TIEDC), on October 15, 2023, in Lecture Theatre 2. This event was to celebrate the Innovation Day. As we celebrate the birth anniversary of a true luminary, Dr. APJ Abdul Kalam, we reflect profound recognition of the indelible mark he left on the world of education, innovation, and science. The event promised to be a convergence of inventive minds, fostering a dynamic environment for the exploration of cutting-edge technologies and creative solutions.

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## Itinerary

Time	Activity
9:00 AM – 10:00 AM	Registration and Inaugural Session
10:00 AM – 1:30 PM	Innovate a thon
1:30 PM – 2:30 PM	Lunch Break
3:00 PM- 5:00 PM	AI and ML class by ACM Cybersecurity Master Class by IEEE
3:00 PM - 5:00 PM	Evaluation of ideas
5:00 PM	Results Announcement and Prize distribution

## Inaugural Session

The day kicked off with a vibrant inaugural session, with distinguished guests and industry experts setting the tone for a day filled with innovation and collaboration. The keynote speaker, Dr. Rajendra Prasad, the Vice Chancellor renowned expert in Data Science and Machine Learning provided insights after the inauguration, into the rapidly evolving landscape of technology and the role of innovation in shaping the future.



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## Innovation Hackathon and Workshops

Participants immerse themselves in diverse technical workshops that run concurrently. In Room 1, ACM-JUIT conducts an exploration of Artificial Intelligence and Machine Learning, shedding light on the latest trends and applications. In Room 2, IEEE leads a Cybersecurity Masterclass, delving into critical aspects of cybersecurity and threat mitigation.

In this pivotal segment, participants split into parallel tracks. Track 1, led by ACM-JUIT members, hosts a Cybersecurity Innovation Hackathon, challenging participants to devise innovative solutions to contemporary cyber threats. Simultaneously, Track 2, guided by IEEE members, explores IoT and Smart Technologies, providing insights into the practical applications of these technologies.

### Innovation Hackathon :

- **Teams Participating:** 12
- **Challenge:** Devising innovative solutions to contemporary problems.
- **Composition of Teams:** Students from all years of the college

S.No.	Team Name	Team Leader	Problem Statement
1	INNOVISIONARIES	Sanskar Pandey	Development of a gamified platform on Children's Rights to increase legal literacy and awareness among children in India
2	JSK	Vansh Bansal	Incentives based Design for onboarding Legal

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			Service Providers such as Advocates, Arbitrators, Mediators, Notaries, Document Writers, etc on eMarket Place for extending Legal Services to Citizens in India.
3	Cosmos	Anmol Bansal	Air and Water Quality Index and Environment Monitoring
4	CureCoders	Kartikey Srivastava	Optimizing Doctor Availability and Appointment Allocation in Hospitals through Digital Technology and AI Integration.
5	The Tech Army	Dhruv Sachdev	A software that suggests drugs and formulations for a disease/pharmacological property based on the Ayurvedic classical books/Repositories
6	Bit By Bit	Rohit Pal	A website under which all rescue agencies are registered and which can display the location of the other rescue relief agencies during natural/man made calamities
7	XdotX	Samson Vincent Julius	Developing a Blockchain-Based eVault for Legal Records
8	RED TEAM	Aayush Sharma	E-Waste Facility Locator
9	Cosmos	Anmol Bansal	Air and Water Quality Index and Environment Monitoring
10	Hackathon hackers	Raghav Sharma	Devise the method for identification of victims buried under avalanches.
11	Binary Brains	Saurav Kumar	Online personalized learning remediation/tutoring tool. Search for best teacher for specific topics.
12	Incredibles	Kartik Bharadwaj	AI-based Automatic Alarm Generation and Drone Payload Delivery



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## Evaluation and Panel Discussions

In addition to technical workshops, participants benefited from guest lectures featuring experts from academia and industry. These sessions provided a broader perspective on the role of innovation in addressing global challenges and highlighted the importance of interdisciplinary collaboration.



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## Results Announcement and Prize distribution

Out of the 12 participating teams, two standout teams were selected as winners based on the innovation, feasibility, and impact of their projects. The winning teams and their projects are summarized in the table and they were selected for filing patents.

Team	Team Leader	Project Idea	Selected For
Invincibles	Kartik Bharadwaj	AI-based Automatic Alarm Generation and Drone Payload Delivery	Design Patent - Automation and Robotics
Cosmos	Anmol Bansal	Air and Water Quality Index and Environment Monitoring	Environmental Sustainability and Health

### Winning Teams' Achievements:

#### 1. Team Invincibles: AI-based Automatic Alarm Generation and Drone Payload Delivery

- **Innovation:** The team developed an innovative solution that utilizes artificial intelligence for automatic alarm generation and a drone for precise payload delivery. The project's potential applications in automation and robotics earned it a design patent.
- **Judges' Impressions:** The judges were impressed by the team's seamless integration of AI with drone technology to address a real-world problem. The solution demonstrated both technical prowess and practicality.

#### 2. Team Cosmos: Air and Water Quality Index and Environment Monitoring

- **Innovation:** The team focused on environmental sustainability by creating a comprehensive system for monitoring air and water quality. Their project

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aimed to provide real-time data for informed decision-making regarding environmental health.

- **Judges' Impressions:** The project showcased a clear understanding of the importance of sustainable practices and the potential impact of technology on environmental monitoring.

### **Conclusion:**

The Innovate a thon a Innovation Day hackathon was a resounding success, with participating teams showcasing remarkable creativity and problem-solving skills. The winning teams, Invincibles and Cosmos, stood out for their innovative approaches to real-world challenges, earning recognition for their potential impact and feasibility. These projects not only demonstrated technical excellence but also a commitment to addressing pressing global issues through technology. The event served as a platform to celebrate innovation and inspire future endeavours in the ever-evolving landscape of technology and problem-solving.