NOVEMBER 2025

TECH की बात

IIT KANPUR
INCUBATION AND INNOVATION IIT KANPUR
STARTUP INCUBATION AND INNOVATION CENTRE IIT KANPUR

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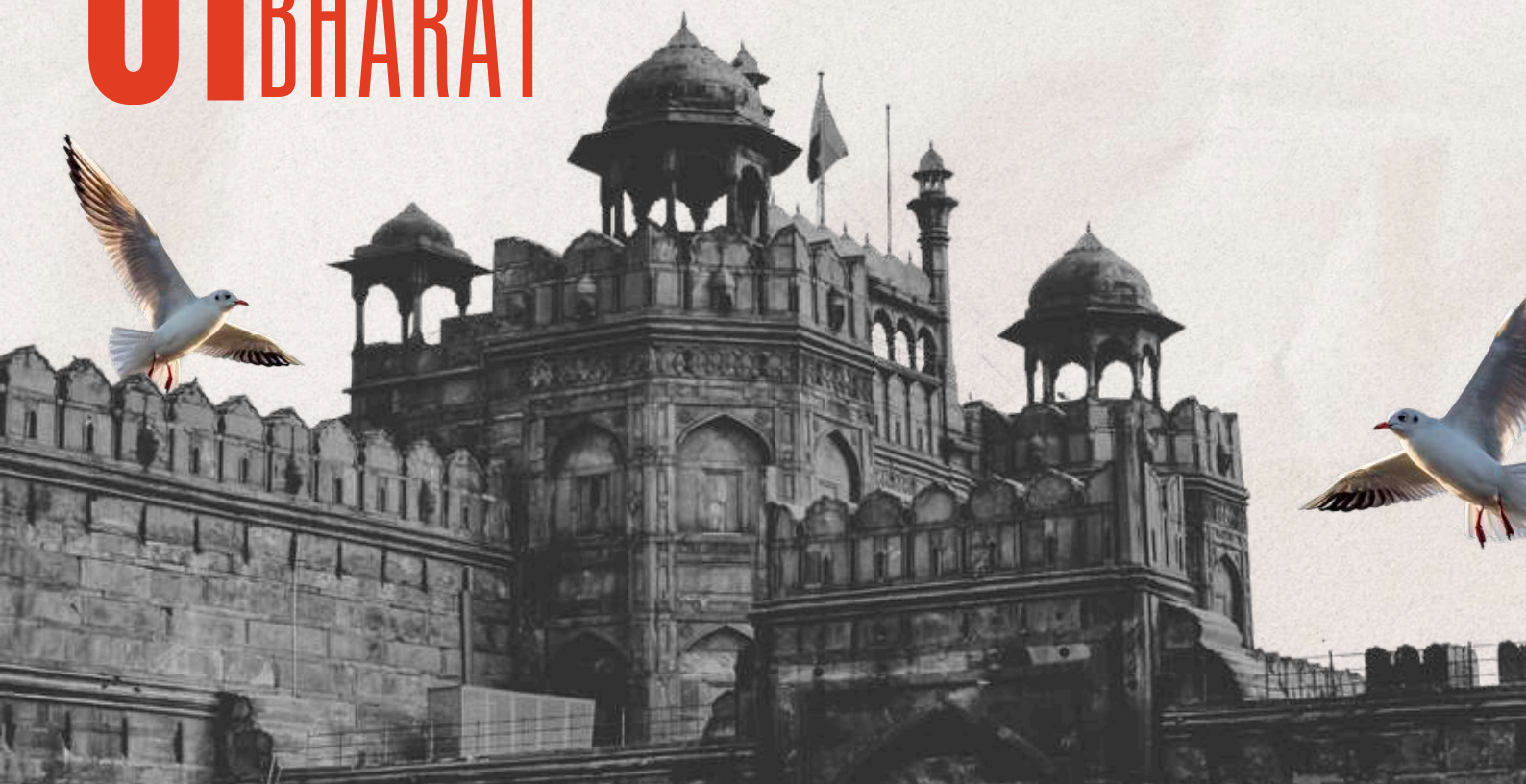
Celebrating

INNOVATIONS OF BHARAT



Mentor

MANTRA

Mr Anil Choudhary
Advisor Technology Innovation Hub IIT Roorkee

***Anil Choudhary**, Advisor to the Technology Innovation Hub at IIT Roorkee and an active mentor in the IIT Kanpur ecosystem, drawing on his 25-year journey in engineering across industries, to leading energy efficiency projects nationwide, reflected that startups may begin with an idea that excites, yet scaling it into a sustainable enterprise demands discipline, clarity and resilience. While highlighting SIIC's vibrant ecosystem support for startups, he specifies that the real challenge lies in channelling strengths into outcomes that truly matter.*

From Ideas to Impact: Building Scalable Startups for India's Net-Zero Future

India's deep-tech and sustainability startup ecosystem is brimming with groundbreaking ideas enabling policies, yet the leap from lab to lasting impact demands more than brilliance; it calls for sharp focus, disciplined execution & resilience. In today's ecosystem, disciplined relevance and smart execution separate fleeting ideas from enterprises that endure and scale.

Clean-tech impact goes beyond devices or apps—it must integrate policy, finance and user behaviour! National priorities like the Indian Cooling Action Plan, the 500 GW renewable target by 2030, green hydrogen missions & low-GWP mandates are creating unprecedented opportunities for startups that strategically align with government schemes and guidelines.

India's net-zero commitments, renewable energy thrust and agricultural reforms are unlocking massive opportunities for startups that seamlessly align with government schemes and industry partnerships. The Indian Cooling Action Plan turns challenges into clear openings, while the 500 GW renewable target by 2030 gives ventures like hybrid solar-wind solutions a decisive competitive edge.

A strategic MoU with NDDB (200+ milk unions), a DISCOM, or a state ESCO can unlock markets far faster than standalone funding. The right alliances also open concessional climate finance—India issued $8 billion in green bonds in 2023 alone, giving clean cooling, e-mobility, and renewable hydrogen ventures access to capital beyond traditional VC equity.

Perfection can wait; early, measurable, real-world impact cannot. A compact pilot—be it a 1 MW solar plant powering 700 rural households or a microgrid for 50 homes—validates demand, de-risks the model, builds investor confidence, and creates rapid learning loops that no pitch deck can match.

Key Takeaways For Founders To Thrive in the Startup Ecosystem

- Relevance wins over novelty- Build what India can afford, adopt and trust.
- Think systems not silos- A real-world pilot that powers 50 homes or 700 households de-risks your venture and speaks better than any pitch deck.
- Partnerships fuel scale- The right MoU with NDDB, a DISCOM, or state ESCO unlocks scale and concessional finance faster than any VC term-sheet.
- Climate goals are market goals- Net-zero goals, ICAP, 500 GW renewables and agri-reforms are massive tailwinds – align early to thrive & prosper.

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NEW INCUBATION

BIOSPRINT MEDTECH

BIOSPRINT MEDTECH

Biosprint Medtech, founded by Saksham Gupta and Vaishnavi Gupta, operates in the medical devices domain, developing innovative solutions to improve healthcare delivery and patient outcomes.

TOZERO SUSTAINABLE SOLUTIONS

TOZERO SUSTAINABLE SOLUTIONS

Tozero Sustainable Solutions, founded by Ajay Agarwal and Suresh Kumar, works in the waste management services sector, delivering sustainable solutions for efficient waste handling and reduced environmental impact.

SaarSwaraaj PVT LTD

SAARSWARAAJ

Saarswaraaj, founded by Prof. Ramprasad Potluri and Prof. Gunasekaran Manavalan, operates in the industrial equipment manufacturing sector with a focus on control systems and robotics.

SEMI MODELIX SOLUTIONS

SEMI MODELIX SOLUTIONS

Semi Modelix Solutions, founded by Yogesh Singh Chauhan and Vismita Singh Chauhan, works in the electrical, electronics, and semiconductor domains.

MONTHLY TIMELINE

11th November 25

On November 11, 2025, Tech Mahindra and SIIC, IIT Kanpur, formalised a collaboration to strengthen India's deep-tech and telecom innovation ecosystem. The partnership focuses on conducting knowledge-sharing sessions, workshops, and telecom-focused hackathons; supporting the screening of startups working in 5G, 6G, and advanced technologies; and enabling select innovators to access expert guidance and facility visits for solution development. This collaboration brings together TechM's industry expertise and SIIC's startup incubation strengths, advancing innovation-led growth and entrepreneurship in the country.

17th November 25

On November 17, 2025, SIIC, IIT Kanpur and IIMB Innovations formalised an MoU to strengthen the startup ecosystem through leadership mentoring, consultation, and digitised program delivery. The collaboration includes joint incubation efforts, exchange of best practices, and co-hosting of seminars and workshops. Startups identified by NSRCEL-IIMB may be co-incubated at SIIC under a unified digital Co-Incubation Model, with infrastructure and incubation governed by Institute guidelines. The MoU also outlines SIIC's provision for equity arrangements as per its policies, creating a structured framework to advance entrepreneurial growth and innovation.

PROGRAM

HIGHLIGHTS

As part of the Bharat Innovates 2026 initiative, on 22 October 2025, SIIC hosted an interactive session with Air Marshal B.R. Krishna (Retd.) and Air Marshal Philip Thomas, AVSM, VM (Retd.), engaging defence-focused startups working on UAV systems, aerospace engineering, cybersecurity, and advanced defence technologies. Their guidance on technology demonstrations and pitch readiness further strengthened SIIC's defence innovation efforts.

Read More

The 5G/6G Centre of Excellence held outreach sessions in Uttar Pradesh from 28 October to 1 November 2025, covering IIIT Allahabad, GL Bajaj Institute, and Chandigarh University's Lucknow Campus. Supported by the Start in UP initiative, these sessions aimed to introduce students to opportunities in advanced communication systems and encourage participation in India's digital transformation.

Read More

Throughout November, the AIIDE and MedTech Centres of Excellence held outreach sessions in Uttar Pradesh to raise student awareness of deep-tech innovation. Participants learned about AI/ML applications and opportunities in healthcare innovation and medical device development. These sessions aimed to expose students to cutting-edge technologies and inspire careers in India's growing deep-tech ecosystem.

Read More

On November 4, 2025, the Artificial Intelligence and Innovation Driven Entrepreneurship – CoE and SIIC IIT Kanpur hosted a one-day workshop titled "Introduction to Artificial Intelligence and Its Applications for Startups" at the IIT Kanpur Outreach Centre, Noida. The workshop introduced startups and students to applications of Quantum Computing, AI/ML, and Generative AI. Supported by Start in UP with Cloudwizard Consulting and AWS, the event included hands-on demonstrations on Amazon SageMaker, Bedrock, and S3, offering practical insights into AI-driven innovation.

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PROGRAM

HIGHLIGHTS

A two-day residential workshop conducted as a part of Social Innovation Lab by Citi on 6–7 November 2025 brought together experts from industry, academia, finance, and regulatory bodies—including Anil Jauhri, Ritesh Jain, Charu Jain, Anurag Awasthi, and Bijan Mishra—to guide startups on investment readiness, regulatory pathways, sustainability standards, and life-cycle assessment, strengthening SIIC's impact-driven ecosystem.

Read More

The "Advaya – Plastic Circularity Innovation Launchpad" was launched on 10 November 2025 in partnership with Pernod Ricard India Foundation to drive circular recycling solutions. Five startups—Evoxia Labs, Zuviron Innovations, Mushloop, Paving+, and SwachhAI Technologies—joined Cohort 1, alongside policymakers and industry leaders working toward a plastic-free future.

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At the PRAYOGI Social Innovation Fund Lab held on 12 November 2025 during the Tribal Business Conclave, SIIC representatives Prof. J. Ramkumar, Dr Neelakshi, and Mr Ashish Sharma served as panel judges evaluating 15 tribal and rural enterprises. The session strengthened inclusive entrepreneurship by linking founders with investors, CSR leaders, and ecosystem partners.

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A hands-on workshop titled "Mastering Lab Hygiene: Fumigation Essentials for Biotech Startups" was conducted on 14 November 2025 by the MedTech CoE under DST-NIDHI-iTBI. Experts from Genetix Biotech Asia Ltd. trained participants in sterilisation and fumigation workflows, supplemented by a live microbiology demonstration by Dr Sandeep Shandilya.

Read More

DAVV Incubation Centre hosted SIIC on 14 November 2025 for a session on the BIRAC BIG Grant (Call 25). The session highlighted funding support of up to ₹50 Lakhs for innovators and startups and covered key aspects of the BIG scheme, including eligibility, application guidelines, and evaluation criteria. Students, researchers, and entrepreneurs working in biotechnology and allied domains received valuable insights to strengthen proposal preparation and leverage BIG as a launchpad for innovation-driven entrepreneurship

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Adiabatic Technologies Advances Smart Energy

Incubated at SIIC IIT Kanpur, has developed a 51V 60Ah battery pack for DF Automation & Robotics, marking a significant step in India's smart energy innovation. The advanced lithium-ion system features 10× lower degradation, intelligent monitoring, and enhanced safety, supporting next-generation intelligent robotic platforms.

Read More

iPanelKlean Showcased at Renewable Energy Expo 2025

SIIC-incubated startup iPanelKlean Solar was selected by SanchiConnect and Informa Markets to exhibit its innovative waterless, low-water solar panel cleaning technology at the Renewable Energy Expo 2025 in Greater Noida. The startup received strong industry interest, including an opportunity from Mr Deepak Prasad, Director, Hyworth 24/7 Clean Energies Pvt. Ltd., to deploy its solution at a megawatt-scale plant in Maharashtra.

Read More

HyBionics & Glimpse Tech Selected for NCPEDP–Mphasis AT Hub Cohort 3

HyBionics and Glimpse Tech, both incubated at SIIC IIT Kanpur, have been selected for the third cohort of the NCPEDP–Mphasis Assistive Technology Hub, announced at the Empower Assistive Technology Conference 2025. HyBionics is developing affordable 3D-printed smart prosthetics and orthotics, while Glimpse Tech is building AI-powered vision headsets that help low-vision users recognize faces through real-time AR. Their innovations collectively strengthen India's assistive technology landscape by improving mobility, sensory enhancement, and independent living

Read More

Lenek & Mobilab Selected for CNBC-TV18 HealthX Elevate Batch of 2025

SIIC-incubated startups Lenek and Mobilab have been selected for CNBC-TV18 HealthX Elevate, presented by Optum India—a platform designed to spotlight high-potential healthcare innovators and strengthen their visibility and growth. As part of the initiative, 10 standout startups, including Lenek and Mobilab, showcased their breakthrough healthcare solutions at the Grand Finale held on 13 October 2025 in New Delhi, underscoring HealthX Elevate's commitment to advancing innovation, collaboration, and scalable impact across India's healthcare ecosystem.

Read More

STORIES

Cyethack Solutions Participates in ESTIC 2025

Cyethack Solutions, a cybersecurity startup from SIIC IIT Kanpur, participated in the Emerging Science, Technology and Innovation Conclave (ESTIC 2025) at Bharat Mandapam, New Delhi. The event marked the launch of the ₹1 Lakh Crore RDI Scheme by Hon'ble Prime Minister Shri Narendra Modi to boost India's research, development, and innovation landscape.

Read More

TSPL Signs iDEX Contract for 76mm Smart Ammunition

TSPL (Taharabadkar Solutions Pvt. Ltd.) has signed a contract with iDEX to develop 76mm Smart Ammunition, after winning the ADITI Challenge for smart munition design. The startup now enters the R&D phase, marking a key step toward advancing indigenous defence technology under Atmanirbhar Bharat. TSPL thanked iDEX, the Ministry of Defence, and its mentors for their support as it progresses toward future production and precision munition innovation

Read More

Kritsnam Technologies Featured in AIM for AI-Driven Water Innovation

Kritsnam Technologies, an SIIC-incubated startup, has been featured in Analytics India Magazine (AIM) for its pioneering work in applying AI and deep-tech to address India's critical water management challenges. Its advanced solutions enable real-time water monitoring, smarter resource allocation and data-driven decision-making, strengthening efforts toward sustainable water management.

GLIMPSE TECH

In this edition of Innovators se Baat, we speak with Soumya Verma, Founder and CTO of Glimpse Tech — a young deep-tech startup developing VR-based assistive devices for people with low vision. What began as a college project rooted in a co-founder's personal journey has grown into an innovation backed by patents, research, and IIT Kanpur's incubation ecosystem. In this conversation, Soumya shares how Glimpse Tech is using empathetic engineering and emerging technology to bring independence, dignity, and real-world impact to millions living with low vision.

Himanshi Kushwaha (HK): Please introduce yourself to the audience and share what Glimpse Tech is all about.

Soumya Verma (SV): I am Soumya, Founder and CTO at Glimpse Tech. At Glimpse Tech, we are building smart, AI-powered devices for people with low vision. Low vision is an irreversible condition that cannot be corrected as of now, so our device helps users make the best use of their remaining vision. What we do is capture the real world from the AI's perspective, enhance it, and give it back to the user in a way that supports their daily independence.

HK: What inspired you to start Glimpse Tech? Was there a personal moment that made this problem feel urgent to solve?

SV: Yes, it is a very personal problem for us because my co-founder actually faces this condition. Back in our second year, we were working on a VR project and realized that VR could be extremely helpful for people with low vision because you can capture the real world and make it virtual. That's when we started exploring the idea seriously. Over time, we filed two provisional patents, published a research paper, and eventually incorporated Glimpse Tech. Now we are incubated at SIIC IIT Kanpur and looking forward to creating more impact.

HK: As a young female founder building a deep-tech AR/VR solution, what have been your most defining challenges, and how did you navigate them?

SV: There have definitely been many challenges—technical challenges, gaining trust, and the perception issue. In the beginning, people would mostly identify me as a student when I went to startup meets, so building credibility took time. I learned that the moment I start speaking about our solution and everything we have built so far, people begin trusting us. Talking to VCs about our future plans in assistive technology was also challenging because it's a niche field, but over time we have learned to navigate these conversations much better.

HK: What is your vision for Glimpse Tech, and what impact do you hope to create for people with low vision in the coming years?

SV: In India, nearly 20 million people suffer from low vision, and we want to reach every section of society—from the top tier to people below the poverty line. That's why we are working through government tenders and NGOs so that our device becomes accessible to everyone who needs it. We also want to expand from being purely an assistive technology company into diagnostics using the same hardware. Our goal is that in the next five years, we should be able to reach at least five million people through both our assistive and diagnostic solutions.

"Opportunities don't arrive neatly packaged — we create them by believing in ourselves."

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UPCOMING

GRANTS/EVENTS/WORKSHOPS

FutureSecure AI Innovation Program(FSAI)

Apply Before: 10 Jan 2026

Student Entrepreneurship Program(SEP)

Apply Before: 28 Feb 2026

ENABLERS

CSR

HDFC BANK
ICICI Securities
Godrej
infoedge
CUGL Central U.P. Gas Limited
MCX METAL & ENERGY Trade with Trust
citi
CAPRI GLOBAL CAPITAL LIMITED
Pernod Ricard India Foundation
आर ई सी REC
ETS-LINDGREN An ESCO Technologies Company
standard chartered
The Consumer Goods FORUM
NTT DATA
Ansys
DANA
GREEN GAS LIMITED
NATIONAL INFORMATICS CENTRE SERVICES INCORPORATED
SKODA | VOLKSWAGEN
Boehringer Ingelheim
SAFEXPRESS Distribution Redefined
PREMJI INVEST
SBI FOUNDATION Service Beyond Banking

FUNDING & MONITORING

DSIR
DEPARTMENT OF BIOTECHNOLOGY
Ministry of Electronics and Information Technology Government of India
Department of Science and Technology Government of India
Ministry of Housing and Urban Affairs Government of India
बाइरैक birac Biotechnology Industry Research Assistance Council
NIDHI by DST Entrepreneur-in-Residence Powered by Venture Center
Government of Uttar Pradesh
UP START INUP A Government of UP Initiative
icmr INDIAN COUNCIL OF MEDICAL RESEARCH
iDEX Innovations for Defence Excellence
SIDAC
sidbi
MeitY Startup Hub
SBI

KNOWLEDGE

futureskills prime A MeitY - NASSCOM Digital Skilling Initiative
DWIH New Delhi Land of Ideas

AI ENABLEMENT

PELTARION

INDUSTRY

FICCI
AIMED Encouraging Responsible Manufacturing Association of Indian Medical Device Industry

INTERNATIONAL

iit STARTUPS
Singapore Indian Chamber of Commerce & Industry
MEET VENTURES
TORONTO BUSINESS DEVELOPMENT CENTRE

SERVICE

aws
exotel
freshworks

CLINICAL

AIG HOSPITALS
Ruby Hall Clinic
NH Narayana Health Health for all. All for health.

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