



భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్
भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

DIGITAL TRANSFORMATION JOURNEY
IIT Hyderabad

Year One: From Vision to Foundation

A Progress Update (August 2025 – July 2026)

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Preamble

It has been one year since the Office of Digital Transformation (DTX) was established at IIT Hyderabad. This report shares our collective journey over the past year and highlights the progress made towards building a secure and integrated digital campus.

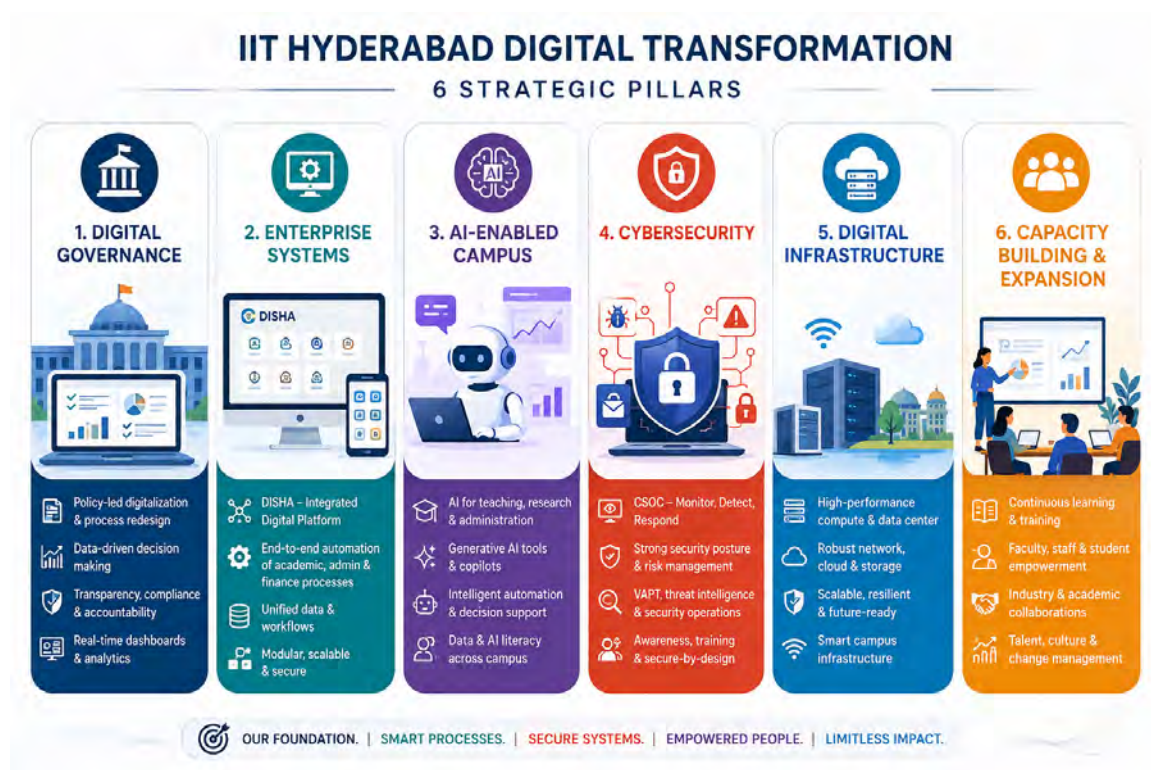
“Digital Transformation is not computerization. It is the redesign of institutional processes, governance, and decision-making using digital technologies and Artificial Intelligence.”

The objective is to simplify processes, improve transparency, strengthen cybersecurity, enhance user experience and enable better decision-making through integrated digital systems. The first year has focused on building the institutional foundations required for sustainable transformation.

Our Vision

Our vision is to establish IIT Hyderabad as a leading AI-enabled digital campus where technology seamlessly supports teaching, research, administration and campus life.

The Digital Transformation initiative is guided by the following six complementary pillars:



Together, these pillars aim to improve the experience of faculty, staff, students, alumni, industry partners, and visitors while strengthening institutional efficiency and governance.

Progress During the First Year

1. Strengthening Digital Governance

The first step in Digital Transformation was to establish governance mechanisms for prioritising digital initiatives across the institute.

During the year we:

- developed a roadmap for Digital Transformation aligned with the institute's long-term vision in a three-day DTX workshop held at IITH in December 2025;
- encouraged redesign of workflows before automation rather than merely digitising existing paper/email-based processes;
- initiated discussions with various stakeholders on digital governance, cybersecurity, Agentic AI, and enterprise architecture;
- promoted standardisation of administrative processes and IT policies to improve efficiency and transparency.

These efforts have laid the foundation for sustainable digital transformation across administrative and academic units.



Transformers Team, DTX Workshop, December 2025

2. Building DISHA — Enterprise Digital Platform

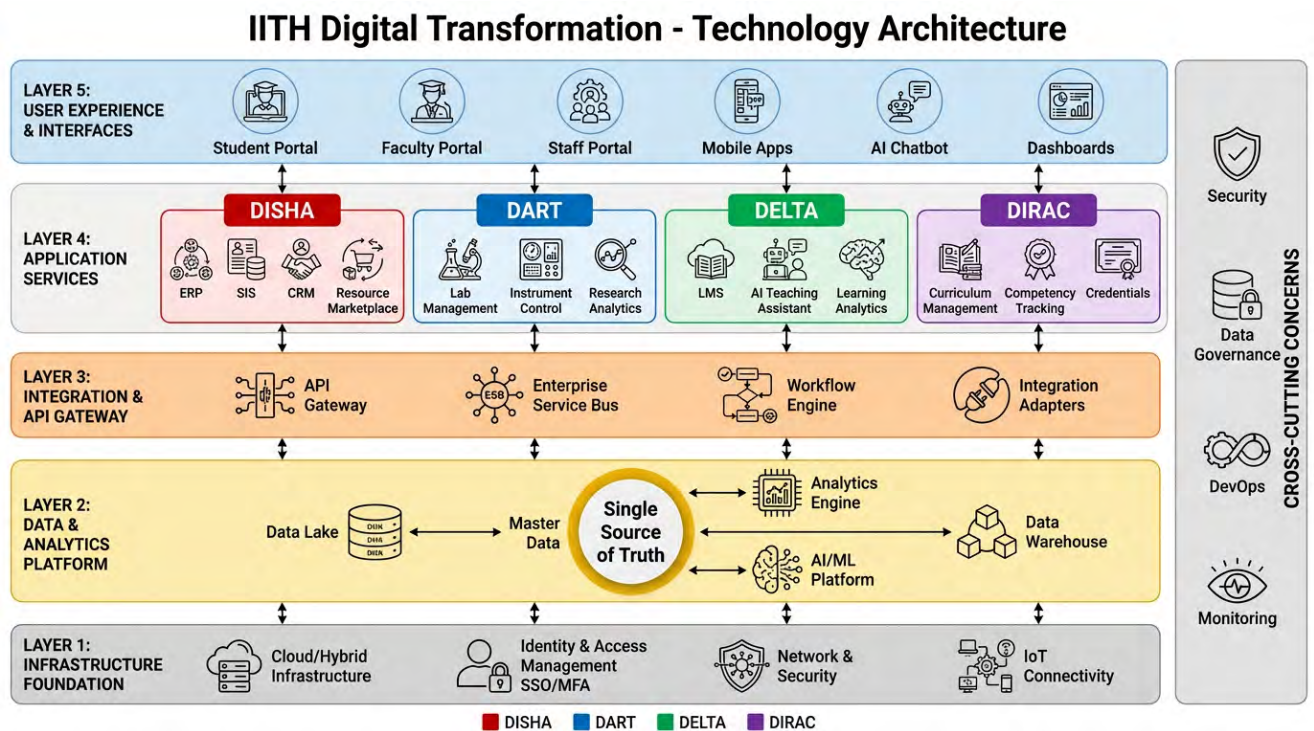
A major milestone during the year has been the design, development and deployment of DISHA (Digital Intelligence System for IITH Advancement), IIT Hyderabad's next-generation enterprise digital platform.

Instead of relying on rigid and expensive commercial ERP solutions, IIT Hyderabad adopted a layered and cost-effective approach by building flexible, AI-assisted, in-house enterprise applications tailored to institute's evolving requirements.

Several modules have already been deployed, including:

- Faculty and Staff APAR
- Leave Management
- Careers for Recruitment of Project Staff and Permanent Staff
- Guest House Management
- Hostel & Mess workflows
- Budget Management
- Asset Management

Several additional modules — including Accounts & Finance, Sponsored Research and Consultancy, Purchases, Hospital Management, Dynamic Forms, AI-powered Ticketing System, Resource Management for room and equipment booking, Student Pulse Portal, and Course Registration — are under active development and phased deployment starting August 2026.



DISHA represents the first step towards replacing fragmented systems with a unified enterprise platform.

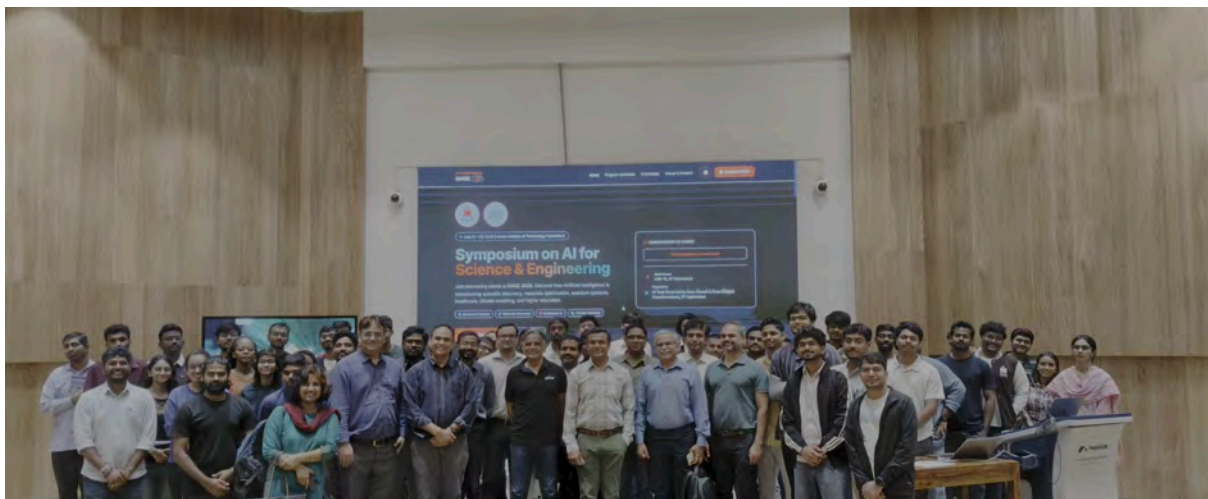
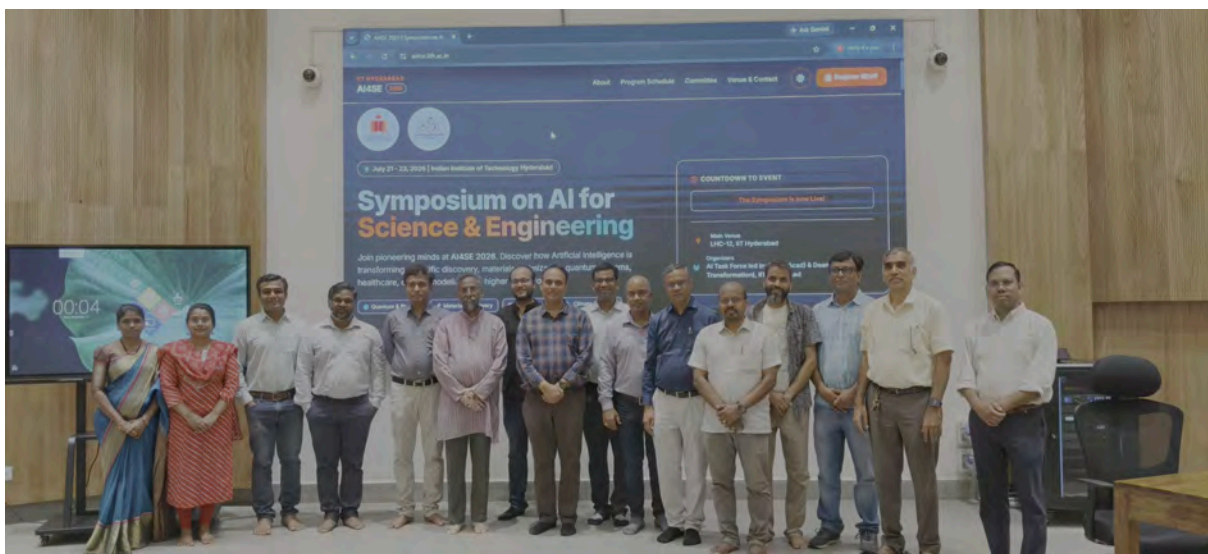
3. Promoting an AI-enabled Campus

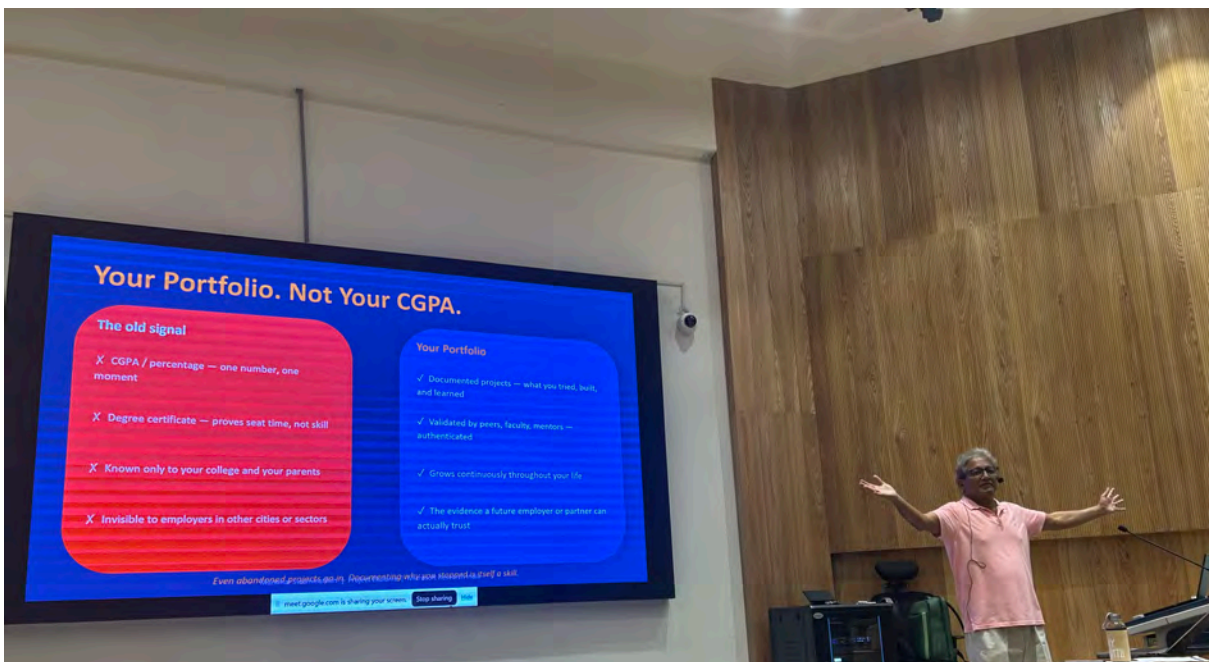
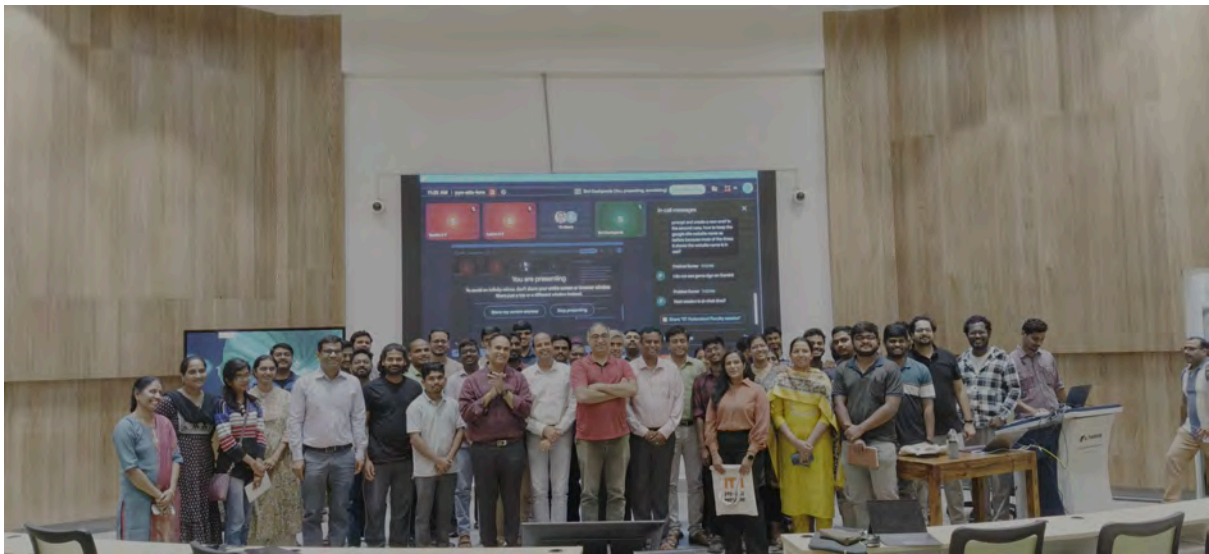
AI is expected to transform higher education in many more ways than the Internet transformed universities over the past two decades.

To prepare IITH community, several AI-focused initiatives were taken during the year. These included:

- A three-day Symposium on AI for Science and Engineering (AI4SE 2026) <<https://ai4se.iith.ac.in>> in July 2026 at LHC.
- Google Gemini workshops
- NotebookLM demonstrations
- Veritus AI pilot
- Adobe Creative Cloud Pro rollout
- Github Copilot rollout
- Adoption of AI-assisted software engineering for DISHA development

More than 500 faculty members, staff, and students participated in AI awareness and training programmes conducted on July 23, 2026 by the Gemini for Education team, helping build institutional capacity for responsible AI adoption.





4. Cyber Security Operations Centre (CSOC)

As digital adoption increases, cybersecurity becomes an essential institutional capability. One of the significant achievements during the year was the establishment of the Cyber Security Operations Centre (CSOC) with a dedicated cybersecurity team.

Major accomplishments include:

- Vulnerability Assessment and Penetration Testing (VAPT) completed for 85+ institutional websites and applications.
- Migration of externally hosted websites to centrally managed institute IT infrastructure.
- Deployment of Web Application Firewall (WAF), OpenVAS vulnerability management platform, and Wazuh Security Information and Event Management (SIEM).
- Security reviews integrated into the DISHA software development lifecycle.
- Capacity building through VAPT training and cybersecurity awareness programmes.

These initiatives have strengthened the institute's overall cyber resilience while promoting a “security-by-design” approach for institutional applications.

5. Digital Infrastructure

Significant efforts were also directed towards strengthening the institute's digital infrastructure.

Highlights include:

- Release of a tender for the new Data Centre of 450 kW in the EE-CS building.
- 200-seat core computer laboratories in Chemical Engineering building, which will be ready soon for conducting labs, recruitment tests, placement exams, etc.
- Knowledge Café portal < <https://knowledgecafe.comp.iith.ac.in> > providing centralised ICT documentation and ICT service directory.
- Roll out of Moodle LMS < <https://moodle.cse.iith.ac.in> > with the support of CSE department.
- Synology Storage (Vault) Service < <https://vault.comp.iith.ac.in/> >: a secure, centralized network-attached storage service to support the Institute's academic, research, and administrative activities.
- Release of tender for upgrading of classrooms in the Lecture Hall Complex as hybrid for recording lectures and conducting synchronous classes.
- Rollout of MyGate App and other digital campus services.

These initiatives augment the existing digital infrastructure to support future digital services.

6. Capacity Building & Community Engagement

Technology alone cannot deliver Digital Transformation. The institute therefore invested significantly in building internal capability by:

- expanding the in-house ERP team;
- establishing cybersecurity team;
- launching DISHA internship program;
- introducing DISHA design internships;
- leveraging Software Engineering student projects;
- organising bootcamps and faculty development programmes on cybersecurity and AI with the support of Centre for Cryptography and Cybersecurity, IITH < <https://ccs.iith.ac.in>>.

This multidisciplinary ecosystem will enable continuous innovation and reduce dependence on external vendors.

Year #1 at a Glance

Pillar	Highlights
Digital Governance	DTX 2025 roadmap workshop, workflow redesign before automation, stakeholder engagement on governance, cybersecurity & IT policies
Enterprise Systems (DISHA)	APAR, Leave, Careers, Guest House, Hostel & Mess, Budget, and Asset Management live; Finance, SRC, Purchase, Hospital, Pulse & Academic ERP in progress
AI-enabled Campus	AI4SE 2026 Symposium, Gemini workshops, NotebookLM, Veritus AI pilot; 500+ trained in AI awareness on July 23, 2026
Cybersecurity (CSOC)	CSOC established; VAPT completed for 85 sites & applications; WAF, OpenVAS & Wazuh deployed;
Digital Infrastructure	New Data Centre (EE-CS building), 200-seat core labs (Chemical Engg. building), Knowledge Café, Moodle LMS, Synology Vault, hybrid classrooms in LHC
Capacity Building & Expansion	Expanded in-house ERP & cybersecurity teams, DISHA & design internships, workshops, bootcamps and FDPs on AI & cybersecurity

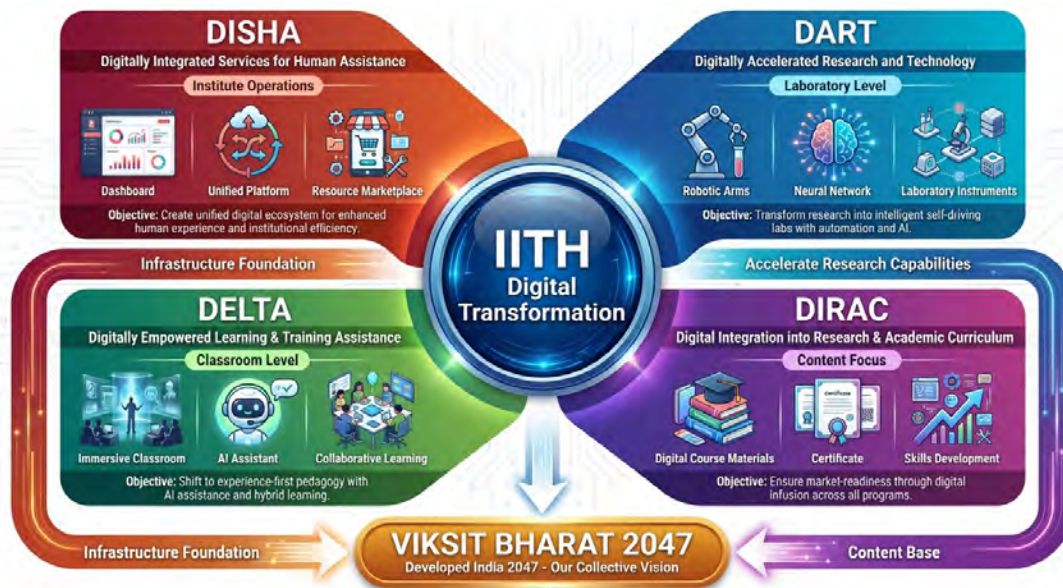


Looking Ahead

The first year has focused on establishing the foundations for Digital Transformation. The coming year(s) will focus on:



Beyond DISHA, our broader vision encompasses complementary initiatives such as DART, DELTA, and DIRAC, which will extend Digital Transformation to research laboratories, teaching and learning, and curriculum innovation, respectively



Summary

The first year focused on building the foundation. The second year will focus on integration, AI-driven automation and delivering a seamless digital experience across teaching, research, administration and campus life.

Our long-term vision is to make IIT Hyderabad a leading AI-enabled digital campus where technology simplifies processes, strengthens governance, empowers people and accelerates innovation.

Acknowledgements

The progress achieved during the first year has been possible because of the collective efforts of many individuals and teams across the institute.

We sincerely thank Prof. B. S. Murty, Director, IIT Hyderabad, for his vision, encouragement, and continued support for Digital Transformation efforts.

Our appreciation goes to the DISHA team led by Mr. Senthil and Dr. Shishir, the Cyber Security Operations Centre (CSOC) led by Dr. Saurabh Kumar, the Computer Centre Chair, Faculty-in-Charges, and staff, all Deans and administrative sections, Dr. Ripi Singh and the DTX workshop team, CMD, and the many faculty members, staff members, students, interns, and project staff whose ideas, feedback, and dedicated efforts have shaped this journey.

Digital Transformation is a journey, not a destination! We look forward to continuing this journey together as we build an AI-enabled, secure, integrated, and future-ready IIT Hyderabad.