

Harnessing AI for Healthcare Transformation - HAHT-IUS 2024 A Collaborative Indo-US Workshop concluded at IIT Hyderabad

Highlights:

- *The event paved the way for groundbreaking collaborations and innovations in AI-driven healthcare.*
- *200+ participants worldwide.*
- *Platform to showcase Cutting-Edge AI Research in Healthcare*
- *Forging Indo-US Strategic Partnership*

Hyderabad, Dec 16, 2024: IIT Hyderabad is honored to host the **HAHT-IUS 2024** workshop from December 16-18, 2024, focusing on **Harnessing AI for Healthcare Transformation**. This collaborative Indo-US event brought together top experts from both countries to explore AI innovations in healthcare. The workshop aims to foster research collaboration, drive improvements in healthcare efficiency, and create strategic partnerships for AI advancements. With prominent speakers like the United States Consul General Ms. Jennifer Larson, Dr. Nageshwar Reddy, and Prof. S.S. Iyengar, the event highlighted AI's transformative role in healthcare systems worldwide.

The 21st century is witnessing a digital revolution, with Artificial Intelligence (AI) at its forefront, poised to redefine healthcare globally. The recent establishment of an AI city in Hyderabad and the U.S. President's executive order on AI underscore the transformative potential of AI to improve quality of life. The event is set to pave the way for groundbreaking collaborations and innovations in AI-driven healthcare. The event was graced by:

- **Ms. Jennifer Larson**, Honorable U.S. Consul General, Hyderabad – Chief Guest
- **Dr. D. Nageshwar Reddy**, Chairman, AIG Hospitals- Guest of Honour
- **Prof. S.S. Iyengar**, Florida International University- Guest of Honour
- **Prof. Ramesh Jain**, University of California, Irvine – Guest of Honour
- **Dr. Sanjay Doddamani**, CEO and Founder of Guidehealth
- **Prof. B.S. Murty**, Director, IITH (virtual)

The workshop is spearheaded by **Prof. C. Krishna Mohan**, Professor, Department of Computer Science and Engineering, IITH, and **Dr. Ram D. Sriram**, Chief of Software & Systems Division, National Institute of Standards and Technology (NIST), USA. **This three-day workshop brought together leaders from India and the U.S. to:**

- Present cutting-edge AI research in healthcare.
- Develop a collaborative research roadmap to accelerate AI-driven improvements in healthcare outcomes, efficiency, and affordability.
- Forge strategic partnerships to leverage joint investments in AI and maximize mutual benefits.

By fostering collaboration and knowledge exchange, this workshop aims to pave the way for a future where AI-powered healthcare solutions enhance the lives of people worldwide.

Ms. Jennifer Larson, Honorable U.S. Consul General, Hyderabad stated: *"The United States and India have long been key partners in the world of technology, and now, our collaboration is entering an exciting new phase through the development of Artificial Intelligence. As Prime Minister Modi famously said during a recent state visit to the United States, the acronym AI has come to symbolize the American and Indian spirit. We see this partnership contributing to a virtuous cycle of innovation and growth right here in Hyderabad."*

Dr. D. Nageshwar Reddy, Chairman, AIG Hospitals stated *"At AIG, we initially underestimated the importance of AI, but its impact on our practice, particularly in patient safety, has been transformative. With a dedicated AI department of 100 engineers, AIG stands out as a leader in healthcare innovation. Accountability, ethical use, and regulatory frameworks are critical aspects of AI in healthcare, which still lacks comprehensive regulations. It is essential for human intelligence to guide AI responsibly and intelligently. To those concerned about AI replacing doctors, it is important to clarify that AI will not replace doctors. However, doctors who effectively use AI will undoubtedly surpass those who do not. I would like to congratulate IIT Hyderabad, Prof. Mohan, and Dr. Ram Sriram for spearheading this excellent initiative. Thank you for driving this important effort forward."*

Prof. S.S. Iyengar, Florida International University stated *"Controlling AI is crucial to ensure its effective implementation across various visionary aspects. The impact of AI has been profoundly transformative, and it stands as a core component in driving advancements like those we discuss in AI for Healthcare Transformation."*

Prof. Ramesh Jain, University of California, Irvine stated: *"Healthcare is not just a technological issue; it is a social problem. And because it is rooted in social challenges, it also becomes a political issue. We must leverage our diversity to solve this problem and, in doing so, become a transformative force for global healthcare. I am truly delighted to be here"*

Dr. Sanjay Doddamani, CEO and Founder of Guidehealth, highlighted the importance of integrating technology, particularly AI, to address healthcare issues for seniors. Dr. Sanjay discussed the disproportionate healthcare costs and outcomes, noting that a small percentage of patients contribute to a significant portion of healthcare expenses. He also shared his excitement about the potential of AI in improving patient engagement, with examples such as using large language models to better engage with patients, resulting in improved completion rates and successful appointments.

Dr. Ram D. Sriram, National Institute of Standards and Technology (NIST) stated: *"AI is democratizing healthcare, bridging the gap between rich and poor countries. I have witnessed numerous waves of AI, and this workshop is showcasing many groundbreaking innovations that are set to transform the field"*

Confirming the need for such a program, Dr BVR Mohan Reddy, Chairman, BoG, IITH, said, (virtual) *"Artificial Intelligence is revolutionizing healthcare by enhancing precision, improving diagnostics, and personalizing treatment. India, with its vast talent pool and growing innovation ecosystem, is uniquely positioned to lead this transformation. Workshops like these empower us to harness AI's potential responsibly, driving innovations that benefit not just India but humanity as a whole. Together, we can shape a future where technology and healthcare converge to save lives and improve well-being"*.

Expressing delight in hosting HAHT-IUS 2024, Prof B S Murty, Director, IITH, said, *"The establishment of IIT Hyderabad as an AI hub and the collaboration between India and the US exemplify how international partnerships can catalyze innovation in AI-driven healthcare solutions. I would like to thank iCET initiative (Indo-US initiative on Critical and Emerging Technologies) for which IITH has been made the Co-Chair from India. The seed for this workshop got planted when I visited NIST as a part of iCET team from India, and with my discussions with Dr. Sriram there. At IITH, we are dedicated to being a key enabler in this transformative journey via our motto "Invent and Innovate in Technology for Humanity (IITH)". It is also pertinent to mention that IITH is the first institute in the country to start a BTech program in AI and it has created a string ecosystem in this field with about 35 faculty members working in this field."*

Prof. C. Krishna Mohan, Coordinator of HAHT-IUS 2024, IITH: *"HAHT-IUS 2024 marks a significant milestone in strengthening Indo-US cooperation in AI research for healthcare. Together with Dr. Ram D. Sriram and the NIST USA team, we aim to develop and implement AI-driven solutions that make healthcare more accessible, efficient, and impactful worldwide."*

The "Harnessing AI for Healthcare Transformation - HAHT-IUS 2024" workshop, held at IIT Hyderabad, has concluded after a successful and insightful series of discussions, collaborations, and knowledge-sharing sessions. This Indo-US initiative has provided a unique platform for experts, researchers, and professionals from both nations to come together and explore the transformative potential of artificial intelligence in the healthcare sector.

The workshop has successfully laid the foundation for future collaborations and advancements in the field of healthcare AI, with both nations committed to continuing their joint efforts in harnessing the power of technology for global healthcare transformation.

Youtube online link for the inauguration ceremony: <https://www.youtube.com/watch?v=RJci2BnXOHI>

Webpage link: <https://cse.iith.ac.in/hahtius-2024/>

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About IIT Hyderabad:

IITH, established in 2008, as one of the second Generation IITs, has reached a respectable position in both academics, research, technology development and startups in the short span of 16 years. In the recent Indian National Ranking (NIRF-2024), IITH is placed at 3rd in Innovation and 8th among Engineering institutes in India.

It has 325+ full-time faculty, 5,300+ students (PG + PhD students accounting for about 60%). The institute has a strong research focus with Rs. 1300+ Cr of R&D funding, 11,500+ publications, 420+ Patents, and about 260+ startups (that have generated 1100+ jobs and a revenue of Rs. 1500+ Cr). Follow us on [Instagram](#), [LinkedIn](#), [Twitter](#), [Facebook](#), [Koo](#), and [YouTube](#) for the latest updates.

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