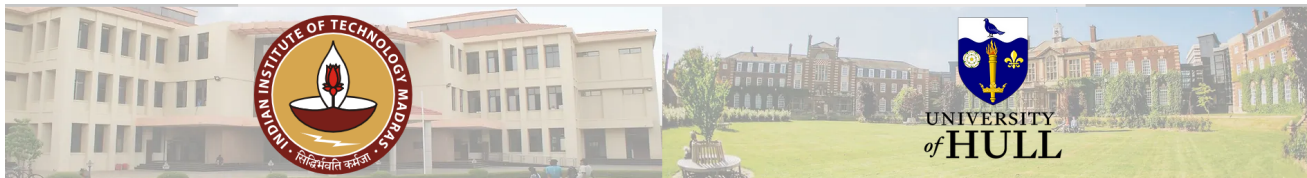# 1st International Workshop on Responsible AI for Healthcare and Net Zero (Hybrid)

Date: October 16-17, 2024

Venue: TTJ Auditorium, IIT Madras, Chennai, India

Agenda

Day 1 Programme: Responsible AI for Healthcare

The format and focus of each session are as follows:

Note: All times in Indian Standard Time/IST

Time	Activity	Location
09:00-09:30	Registration	TTJ Auditorium, ICSR
09:30-10:15	Welcome and Opening remarks: **Professor Balaraman Ravindran** and **Professor Dhaval Thakker**	TTJ Auditorium, ICSR
10:15-11:05	Keynote 1: **Raghu Dharmaraju (AI, Data, Robotics for Impact | Health, Language, Climate)** **(40 mins talk, 10 mins Q & A)** **(Chair: Professor Balaraman Ravindran)**	TTJ Auditorium, ICSR
11:05-11:40	Coffee break	Annexe Dining Hall, ICSR
11:40-12:55	Oral presentation X 5 (10 mins for presentation + 5 mins for Q & A) (**Chair: Professor Kevin Pimbblet**) • **Title:** AI-Driven Companionship in Addressing Loneliness: Ensuring Ethical and Responsible Use of LLMs Authors: Joel Samuel Raj A	TTJ Auditorium, ICSR

	• **Title:** Explainable AI Models for Prediction and Interpretation of Preterm Births
	   Authors: Jashmin Swain, Krishna Sameer and Siba K. Udgata
	
	• **Title:** Enhancing Retinoblastoma Diagnosis: A Comparative Analysis of Preprocessing Techniques and Transfer Learning Models with LIME Interpretation
	   Authors: Pranav Sharma, N. Meenachi Madurai and M Kanaga
	
	• **Title:** A Responsible AI Perspective to implementing Generative AI in Personalized Healthcare: Implications, Challenges and Future Directions
	   Authors: Temitayo Fagbola, Aarzoo Dhiman, Julius Mboli and Bhupesh Mishra
	
	• **Title:** Neuro Symbolic AI and Large Language Models: A Survey
	   Authors: Maneeha Rani, Bhupesh Kumar Mishra, Dhavalkumar Thakker and Will Jones	

12:55-13:15	Invited Talks Session-I (chair: **Professor Dhaval Thakker**) • Invited Talk 1: **Mr Milind Pande** (**Title:** CustomLens Ai: Applying Ai to improve spectacle-free vision outcomes in cataract surgery worldwide.)	TTJ Auditorium, ICSR
13:15-14:30	Lunch break	Annexe Dining Hall, ICSR
14:30-16:10	Invited Talks Session-II (Chair: **Dr Gokul Krishnan**) (15 mins for presentation + 5 mins for Q & A) • Invited Talk 2: Ms Kuniko Paxton , UK (Title: Evaluating Fairness and Mitigating Bias for Skin Colour in Machine Learning Using Tensor Data) • Invited Talk 3: Dr Rameez Kureshi (University of Hull, UK) (**Title:** Indoor Urban Observatories: AI & IoT to drive positive behaviour change.) • Invited Talk 4: Taofiq Adeyemo (**Title:** Explainability and Stakeholder Engagement within Responsible AI Frameworks in Healthcare - Systematic Review, PhD candidate, University of Hull (presenting online)) • Invited Talk 5: Mr David Molyneux: AI Assurance: need of the hour. PhD candidate, University of Hull, UK • Invited Talk 6: Dr. Krishna Pillutla, Assistant Professor, Dept. of CSE, IIT Madras.	TTJ Auditorium, ICSR

16:10-16:40	Coffee break	Annexe Dining Hall, ICSR
16:45-17:55	Panel session: Responsible AI for Healthcare - opportunities and challenges (chair: **Professor Dhaval Thakker**, UoH). Panel members: **Professor Balaraman Ravindran, Dr Will Jones, Professor Kevin Pimbblet,** Raghu Dharmaraju, **Mr Milind Pande, and Srinivasan Parthasarathy**.	TTJ Auditorium, ICSR
18:00-18:45	Keynote 2: **Professor Amit Sheth: NCR Chair & Professor of Computer Sc & Engg, and founded the university-wide AI Institute at the University of South Carolina** **Title:** Why do we need custom or targeted, compact, and neurosymbolic AI models for health applications? **(40 mins talk, 05 mins Q & A)** **(**Chair: **Professor Dhaval Thakker)**	TTJ Auditorium, ICSR
18:45-19:00	Closing	TTJ Auditorium, ICSR