

Symposium on AI in Healthcare

Department of Data Science and Engineering at the Indian Institute of Science Education and Research (IISER) Bhopal organized a symposium focused on plenary and keynote talks over uses and advances in Artificial Intelligence (AI) for Better Healthcare on 22nd March 2025. This symposium was the first of its kind in Bhopal, as per our knowledge, and the objective was to promote insights into AI for better medical diagnostics and treatment plans. It was a step towards amalgamation of the healthcare professionals and the technical experts from Academia and Industries working with AI for healthcare. The symposium was attended by over 150 students and around 50 dignitaries from healthcare industries, medical schools, engineering institutes and AI researchers.



The symposium began with a warm welcome to all the dignitaries and participants. This was followed by the National Anthem and lighting of the lamp by distinguished guests such as Dr. Kavita N Singh, Dean of Gandhi Medical College, Bhopal and Dr. Manisha Shrivastava, Director of Bhopal Memorial Hospital and Research, Prof. Sanjit Konar, Dean of Research and Development at IISER Bhopal. Dr. Tanmay Basu, Head of the Department of Data Science and Engineering, presented a brief introduction about the need for such symposiums and initiatives of IISER Bhopal, particularly the Data Science department in this regard. Further, Prof. Sanjit Konar shared his insights and emphasized the need for AI in various fields and how it is applied, especially in healthcare. Furthermore, he discussed the current research works

under this theme and welcomed future collaborations between healthcare and technical experts in the field of mental health understanding and prediction.

To set the tone, the symposium began with two plenary talks from Dr. Kavita N. Singh and Dr. Manisha Shrivastava. Dr. Kavita shared her professional journey in the health sector and discussed AI in Gynecology and Oncology. Her vision towards use cases of AI in healthcare sparked hope in the applications of trustable AI. Dr Manisha showed the major milestones covered by AI in the fields of TB detection, pathology, drug delivery, robotic surgery, and transfusion medicines. These talks mesmerized the audience, especially students from healthcare, to seek a career in AI along with their healthcare profession.



Following a small tea break, the symposium witnessed several high-impact keynote talks from eminent scientists working in the Academic and Industry sectors for healthcare. From the healthcare industry experts, Mr. Brijesh Chenan, Senior Vice President of Siemens Healthineers in Bangalore, discussed how digital twins are applied in healthcare. Ms. Valli, the Director and Mr. Avinash, senior product manager from Panacea Medical Technologies in Bangalore deep dived into AI for Radiation Therapy. Dr. R Vaitheeswaran the product manager of Elekta in Bangalore discussed the practical applications developed in Elekta for better radiation oncology treatment planning and delivery. Furthermore, Dr. Pragya Dube, the state program manager and Dr. Shalini Kapoor state program lead) from Wadhvani Institute for AI shared lights over AI use-cases for sustainable healthcare and eliminating disease such as TB.



The symposium witnessed well known healthcare academic experts from CMC Vellore, Gandhi Medical College, and AIIMS Bhopal. Prof. Rajesh Malik, Head of Radio Diagnosis from AIIMS Bhopal shared his insights and experience in applied AI use-cases for a better Radio-Diagnosis. Prof. Balu Krishna, Head Radiation Oncology at CMC Vellore amazingly presented his thoughts over AI in exploring Electronic Health Records (EHR) and how to transcribe the speech analytics for transcribing a medical practitioner's language to EHR. Dr. Swati Goyal, Associate Professor, Gandhi Medical College Bhopal shared the need of collaborations between engineering and medical professionals for harnessing the power of AI in general medicines. Dr. Tamonud Modak from Department of Psychiatry in AIIMS Bhopal sparked a discussion on applications of IOTs and AI in understanding mental health, a rarely discussed topic under health data science. He showed multiple research directions for solving various challenges under mental health predictions.



The symposium hosted an exciting panel discussion composed of panel experts namely, Dr. Shweta Azad, Dr. Vidhi Gupta, Dr. Renu Singh from from Jawahar Lal Nehru Cancer Hospital in Bhopal, Dr. Ankur Patel, Mr. Avaneesh Mishra from AIIMS Bhopal, Dr. Shalini Kapoor from Wadhvani AI, and Dr. Tanmay Basu from IISER Bhopal. The panel discussion was moderated by Dr. Feroz Khan Suri, CEO of Incubation and Innovation Cell at IISER Bhopal. It was a very interesting show which allowed a collective transfer and sharing of knowledge not only form the panelist but from the audience too. The panelist mostly discussed the role and value of medical data for better diagnosis.



Overall the first Symposium on AI in Healthcare at IISER Bhopal was a grand success and received good feedback. To conclude, Dr. Akash Anil, the convener of the program thanked all the dignitaries who joined the event in spite of their busy schedule and to all students, academic, and office staff who helped in making this event successful. Further, Dr. Tanmay shared a future vision over introducing a certificate course on AI in Healthcare.