

'AI will not replace human intelligence, but redefine role of humans'

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Lucknow: Emphasising the transformative role of Artificial Intelligence in healthcare, IIT-Kanpur director Prof **Manindra Agrawal** said that while AI will not replace human intelligence, it will redefine the role of humans.

Speaking at KGMU Foundation Day, Prof Agrawal highlighted key impacts of AI expected in the near future: precision and efficiency, alongside consistency. He explained that AI could revolutionise healthcare by enhancing diagnostic and surgical accuracy while ensuring uniformity in operations, thereby reducing human errors. He cited examples of robots developed by companies such as Tesla and Boston Dynamics, capable of performing complex tasks like climbing mountains or assisting in intricate medical procedures.

Despite these advancements, he reassured that the human touch in healthcare would remain indispensable. "Doctors would continue to

oversee surgeries conducted by robots, ensuring precision and offering critical judgment in complex scenarios," he said.

Prof Agrawal also discussed AI's expanding role in medical analytics, where vast datasets are analysed to identify patterns and correlations. He explained how AI systems could link diseases to environ-

mental factors like weather, enabling faster and more accurate diagnostics. For instance, he cited liquid biopsies for cancer detection as a demonstration of AI's potential to improve medical outcomes.

Highlighting the importance of interdisciplinary collaboration, Prof Agrawal said innovation thrives when experts from diverse fields come together. He pointed to the USA as a model, where partnerships between medical schools and engineering faculties have driven significant technological advancements. He described AI as a powerful tool to enhance precision and open new avenues for innovation.

