

# Assisting physicians with AI-based diagnostics

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CAN AI be used to improve patient care? Will it be safe for doctors to rely on AI tools to detect dormant medical conditions and analyse the probable risks in future?

Researchers at the Centre for Integrative Biology and Systems Medicine (IBSE) at IIT Madras are working to tap the potential of AI and data science to develop healthcare tools aimed at helping doctors who work in resource-scarce environments and thereby improve patient outcomes.

IBSE has built tools to identify diseases, improve maternal and child health, among other things.

The researchers focus on developing diagnostic markers, which identify diseases or certain medical conditions and

predict risk for a disease.

They also devise assistive technologies, which help physicians and reduce their workload, allowing them to focus on more pressing cases. This involves designing algorithms for automating diagnoses using

image-based and video-based analysis, said Dr Himanshu Sinha, an associate professor of biotechnology at IIT Madras and faculty co-ordinator of IBSE.

“We are also discussing solving population-level issues region-wise as the

healthcare data issues vary among different regions across the country,” he says.

While the technology has been formed, researchers at IBSE and Robert Bosch Centre for Data Science and AI are working to validate tools and check its reliability.



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