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India develops AI tool to detect COVID-19 in Chest X-rays

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The AI tool, ATMAN AI is developed by DRDO's Centre for Artificial Intelligence and Robotics (CAIR), in support from 5C Network & HCG Academics



India's Defence Research and Development Organisation (DRDO) has developed an artificial intelligence algorithm that can detect the presence of the COVID-19 virus in chest X-rays. The AI tool, ATMAN AI, was developed by DRDO's Centre for Artificial Intelligence and Robotics (CAIR), with support from 5C Network & HCG Academics.

Triaging using X-ray in COVID-19 diagnosis is a method for the rapid identification and assessment of the lungs. The tool will be used by 5C Network, the country's largest digital network of radiologists, with the support of HCG Academics. Triaging potential patients using X-ray is fast, cost-effective, and efficient.

ATMAN is a useful tool especially in smaller towns in the country, owing to a lack of access to CT scans. The technology will also reduce the existing burden on radiologists and free up CT machines for other diseases and illnesses.

ATMAN Believable AI, along with existing ResNet models. The algorithm showed an accuracy of 96.73%. 5C Network is connected to over 1,000 hospitals across the country, will make ATMAN available to state-run and private hospitals.

The development of ATMAN as an AI-based diagnostic tool for the virus is part of DRDO's effort to help clinicians rapidly diagnose and effectively treat COVID-19 patients. The tool would automatically detect radiological findings indicative of COVID-19 in seconds.