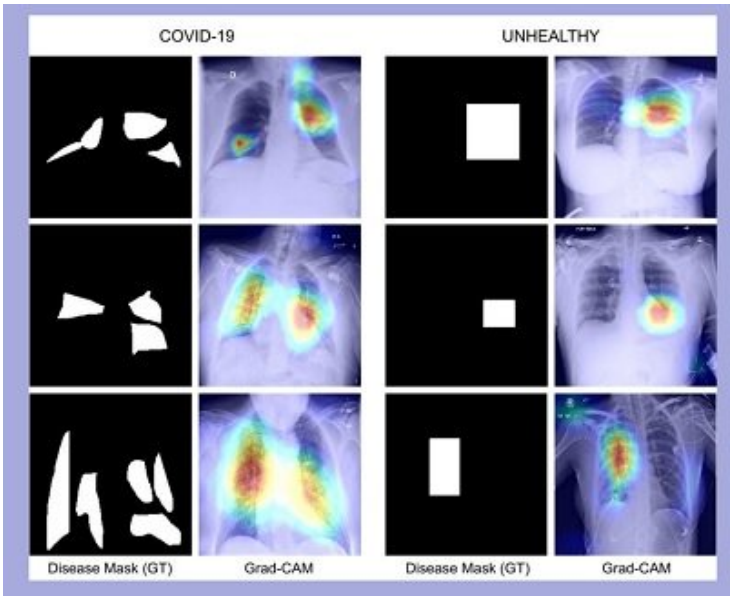
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IIT Jodhpur develops automated AI-solution for COVID-19 screening from chest X-rays

28 January 2022 | News

An experiment was performed with more than 2500 chest X-ray images and achieved about 96.80 per cent sensitivity



Researchers at the Indian Institute of Technology (IIT) Jodhpur have developed an explainable Artificial Intelligence (AI) solution for predicting COVID-19 from chest X-rays (CXR).

The researchers have proposed a deep learning-based algorithm called COMiT-Net, which learns the abnormalities present in the chest X-Ray images to differentiate between a COVID-19 affected lung and a non-COVID affected lung. The developed AI algorithm not only predicts whether the CXR has COVID-19 pneumonia or not, but it is also capable of identifying the infected regions in the lungs, thus making them explainable.

The proposed study can visually showcase the region which is infected and the AI solution used in this research is explainable from both algorithmic and medical points of view.

A research paper on this project has been published in the journal 'Pattern Recognition (Volume 122),'. The research is part of the RAKSHAK project under NM-CPS DST and iHuB Drishti at IIT Jodhpur.