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Covid Prediction from Chest X-Rays Using Transfer Learning

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Commun. Comput. Info. Sci. ; 1367:128-138, 2021.

Article | WHO COVID | ID: covidwho-1144309

Abstract

The novel corona virus is a rapidly spreading viral infection that has become a pandemic causing destructive effects on public health and global economy So, early detection and Covid-19 patient early quarantine is having the significant impact on curtailing it's transmission rate But it has become a major challenge due to critical shortage of test kits A new promising method that overcomes this challenge by predicting Covid-19 from patient X-rays using transfer learning, a deep learning technique is proposed in this paper For this we used a dataset consisting of chest x-rays of Covid-19 infected and normal people we used VGG, GoogleNet-Inception v1, ResNet, CheXNet models of transfer learning which is a deep learning technique for its benefit of decreasing the training time for a neural network model Using these we show accuracies of 99 49%, 99%, 98 63%, 99 93% respectively in Covid-19 prediction from x-ray of suspected patient © 2021, Springer Nature Singapore Pte Ltd