Chapter

Sectional Convolutional Neural Network (S-Cnn) Model for Automated Covid Ct-Scan Images Recognition

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ABSTRACT

COVID-19 can infect humans; therefore, its rapid detection is of the utmost importance. This project aims to discover and classify the Coronavirus using machine learning. The Computer-Aided Diagnosis (CAD) system should identify and acknowledge the Coronavirus in the CT-Lung examination to differentiate and classify COVID-19. Some doctors believe that RT-PCR is the most effective method for detecting coronavirus infection, while others believe that CT scans of the lungs are more reliable and less expensive. In this investigation, we apply two distinct types of datasets: those with and without coherent CT scan images. An algorithm known as the Sectional Convolutional Neural Network (S-CNN), a modified version of the Convolutional Neural Network, will be utilized to identify these studies. With S-CNN, it is possible to configure hardware to function without a high configuration. The model is then 94% accurate and relevant to today's world.

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