Topic: Detecting- Covid-19

The increasing frequency and magnitude of viral outbreaks in recent decades, epitomized by the current COVID-19 pandemic, has resulted in an urgent need for rapid and sensitive viral diagnostic methods. Here, we present a methodology for virus detection and identification that uses a convolutional neural network(CNN). Our approach with deep learning can help rapidly detect virus using feature extraction and trained CNN model which observe between distinct X-ray images of different virus-positive and virus-negative samples. first by using convolution we extract the specific feature from the input image and tend to experiment with fewer layers using convolution matrices as we go inside the sub layers, the more features can be extracted. At last, we are having binary classified result which will contain only one output result. Based on our trained model we'll be able to know if person is infected with covid-19 or not.

Keywords –: Covid-19 detection, Deep Learning, Convolution neural network , X-ray Images, Feature Extraction, Medical image Analysis, Image Processing

1.Applications : Covid-detection

2. Algorithm :CNN

3. Input : X-ray Images

4. Expected Output : binary result(0 or 1)

1. 1: a person is Covid-19 infected.
2. 0: a person is No Covid-19 infected.

5. References : Git-hub,Geeks-for-Geeks,Simplilearn

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