



CNN Deep-Learning Technique to Detect Covid-19 Using Chest X-ray

Reviewer 1: --

1. In several sections sentences has spelling and grammar mistakes, which needs to be corrected.
2. In several sections sentences has space problem, which needs to be corrected.
3. Proper sentence construction in several sections to be modified.

Actual	Suggested
<i>around the world are under locked down due</i>	<i>around the world are locked down due to</i>
<i>imposed a strict travel restrictions and has</i>	<i>imposed strict travel restrictions and has</i>
<i>major impact on aviation sector and the</i>	<i>major impact on the aviation sector and the</i>
<i>real emergence are not able travel from one</i>	<i>real emergence are not able to travel from one</i>
<i>hindrance to emergency travelers and for</i>	<i>hindrance to emergency travelers and</i>
<i>a typical pneumonia in the CT Scan or in</i>	<i>show typical pneumonia in the CT Scan or</i>
<i>In order to reduce the risk to some extent</i>	<i>To reduce the risk to some extent</i>
<i>upload his / her chest X-ray prior to travel</i>	<i>upload his / her chest X-ray before travel</i>
<i>Covid-19 prior to the RT-PCR test</i>	<i>Covid-19 before the RT-PCR test</i>
<i>who are highly prone for the infection</i>	<i>who are highly prone to the infection</i>
<i>effect the lungs and it looks different from the other</i>	<i>affects the lungs and it looks different from other</i>
<i>In paper, we used the CNN model</i>	<i>In the paper, we used the CNN model</i>
<i>usually an expert radiologists are required</i>	<i>usually, an expert radiologists are required</i>
<i>author trained the network with normal</i>	<i>the author trained the network with normal</i>

value of 89.61% and recall of 83%.	value of 89.61% and a recall of 83%.
an influenza using a chest computed	influenza using a chest computed
author used a pre-trained network	the author used a pre-trained network
The author generated training and validation	The author generated a training and validation
accuracy of 97% for Inception-V3 model and	The author generated the training and validation
accuracy of 97% for Inception-V3 model and	an accuracy of 97% for the Inception-V3 model and
disease using 3D range and corona ranking system	disease using the 3D range and the corona ranking system
gained a good tradeoff between accuracy	gained a good tradeoff between the accuracy
a Convolutionary Neural Network (CNN) for	a Convolutional Neural Network (CNN) for
Neural Network (CNN) is used for an image classification	Neural Network (CNN) is used for image classification
the CNN is shown in the fig 1	CNN is shown in fig 1
to classify an images. Features are extracted	to classify images. Features are extracted
which will be slided across the entire part	which will be slide across the entire part
We build CNN model in keras	We build the CNN model in Keras
Model used in our method is sequential	The model used in our method is sequential
a convolution layer with 64 filter of 3X 3	a convolution layer with a 64 filter of 3X 3
layer is with relu activation function	layer are with relu activation function
there are more than 5 lakhs parameter in this	there is more than 5 lakhs parameter in this
Since these models are providing a better accuracy	Since these models are providing better accuracy
VGG16 is trained on ImageNet dataset	VGG16 is trained on the ImageNet dataset
chest X-ray of COVID effected patients	chest X-ray of COVID affected patients
X-ray of normal patients are taken from	X-ray of normal patients is taken from
Training dataset size of 224 images and testing	A training dataset size of 224 images and a testing
dataset available in Italian Society of Medical	dataset available in the Italian Society of Medical

COVID effected patients who had infection in the	COVID affected patients who had an infection in the
We have used transfer technique to improve	We have used a transfer technique to improve
as shown in the figures 6 and 7	as shown in figures 6 and 7
summary of the model is shown in the Figure 8	summary of the model is shown in Figure 8
Covid-19 using chest X-ray can be used	Covid-19 using a chest X-ray can be used
needed for further evaluation in order to avoid	needed for further evaluation to avoid
instances where only the radiologist 's	instances where only the radiologist's

Comments to Editor :

1. After modifying the content, paper can be accepted for possible publication.

Reviewer 2: --

1. Paper should be written in JMCMS Journal format.
2. References and in-text citations are not in JMCMS format. More references should be included and sequentially/adequately arranged, as cited in the text.
3. The authors are requested to rewrite the abstract, as this section does not properly depict the paper's actual aim and objective.
4. All the equations should be typed only in equation editor, and maintain the uniform size.
5. In this paper, the literature review is missing, so; current research is not sated in this paper. The authors need to discuss the literature study after the introduction. Authors are advised to add a comparative study with existing similar implementation; otherwise, the research's impact is not established.
6. Conflict of interest regarding article should be mention in the text.

Comments to Editor :

1. After modifying the content, paper can be accepted for possible publication.

Reviewer 3: --

1. Paper should be written in JMCMS Journal format.
2. References and in-text citations are not in JMCMS format. More references should be included and sequentially/adequately arranged, as cited in the text.
3. It is advised to the authors that they need to disclose their proposed system provides the amount of accuracy in abstract and conclusion.
4. The total number of references are used in this paper is seven. In this particular topic, plenty of research is available, so authors need to provide at least 20 references, and all references should be sequentially/adequately arranged, as cited in the text.
5. The conclusion should be brief and short, which needs to specify the paper's aim and objective.
6. Conflict of interest regarding article should be mention in the text.

Comments to Editor :

1. After modifying the content, paper can be accepted for possible publication.

Regards
Editorial Manager

[Note: This is a computer-generated Report hence, no need of any Signature.]