

### Review Form 3

Journal Name:	<a href="#">Asian Journal of Research in Computer Science</a>
Manuscript Number:	Ms_AJRCOS_129746
Title of the Manuscript:	Lung Disease Classification and Detection based on Convolutional Neural Network: A review
Type of the Article	

#### **General guidelines for the Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

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#### **PART 1: Comments**

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	This manuscript is of paramount importance to the scientific community as it provides a comprehensive review of deep learning techniques, specifically convolutional neural networks (CNNs), for the detection and diagnosis of pneumonia diseases. The timely and accurate diagnosis of pneumonia is crucial to prevent millions of deaths worldwide, and this manuscript offers valuable insights into the current state-of-the-art methods and techniques. By presenting a thorough analysis of various CNN architectures and their applications in pneumonia diagnosis, this manuscript serves as a vital resource for researchers, clinicians, and healthcare professionals seeking to improve patient outcomes and save lives. Ultimately, this manuscript has the potential to accelerate the development of more effective and efficient pneumonia diagnosis systems, thereby contributing significantly to the global fight against this devastating disease.	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes the title of the article is suitable	

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<p><b>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</b></p>	<p><b>Suggestion of abstract</b>  Pneumonia remains one of the leading causes of morbidity and mortality worldwide, emphasizing the need for accurate and efficient diagnosis. Recent advances in deep learning have shown promising results in medical image analysis, particularly in the diagnosis of pneumonia. This comprehensive review aims to provide an in-depth analysis of deep learning techniques, specifically convolutional neural networks (CNNs), for pneumonia diagnosis. We discuss the strengths and limitations of various CNN architectures, including AlexNet, VGG-16, Inception-v1, Inception-v3, ResNet-50, Inception-ResNet-V2, and ResNet201. We also examine the role of data augmentation, transfer learning, and fine-tuning in improving the performance of CNNs in pneumonia diagnosis. Furthermore, we highlight the challenges and future directions in the application of deep learning techniques for pneumonia diagnosis. This review provides a comprehensive overview of the current state-of-the-art in deep learning-based pneumonia diagnosis, serving as a valuable resource for researchers, clinicians, and healthcare professionals seeking to improve patient outcomes and save lives.</p>	
<p><b>Is the manuscript scientifically, correct? Please write here.</b></p>	<p><b>Scientific Correctness</b>  1. Some statements lack evidence: A few statements in the manuscript lack evidence or references to support them.  2. Overemphasis on technical details: Some sections may be too focused on technical details, making it challenging for non-experts to follow.  3. Limited discussion of limitations: The manuscript could benefit from a more in-depth discussion of the limitations of deep learning techniques in pneumonia diagnosis.</p>	
<p><b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b></p>	<p>Yes some of the references are recent</p>	
<p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>	<p><b>Yes the language/English quality of the article suitable for scholarly communications</b>  <b>This a review article</b></p>	
<p><b>Optional/General</b> comments</p>		

**PART 2:**

	<p><u>Reviewer's comment</u></p>	<p><u>Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</u></p>
<p><b>Are there ethical issues in this manuscript?</b></p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

**Reviewer Details:**

<p><b>Name:</b></p>	<p><b>M Pradeep</b></p>
<p><b>Department, University &amp; Country</b></p>	<p><b>Shri Vishnu Engineering College for Women, India</b></p>