REVIEWER'S REPORT

Manuscript No.: IJAR- 54047   Date: 25/9/2025

Title:

Assessing Prediction Outcomes of Convolutional Neural Networks Trained on Parasite and Healthy Cell Images for Sickle-Cell & Malaria

Recommendation:

Accept as it is ....
Accept after minor revision.................
Accept after major revision ....
Do not accept (*Reasons below*) ....

Rating	Excel.	Good	Fair	Poor
Originality		Good		
Techn. Quality		Good		
Clarity		Good		
Significance		Good		

Reviewer Name: Dr.Sumathi   **Date:** 25/9/2025

Reviewer's Comment for Publication.

(*To be published with the manuscript in the journal*)

The reviewer is requested to provide a brief comment (3-4 lines) highlighting the significance, strengths, or key insights of the manuscript. This comment will be Displayed in the journal publication alongside with the reviewers name.

A convolutional neural network is a type of artificial neural network that excels at image recognition and processing.

Detailed Reviewer's Report

1. **A healthy cell image shows cells with consistent size and shape, clear boundaries, and well organized nuclei, often appearing uniform and appropriately differentiated.**

2. **A healthy cell image shows a normal red blood cell as a round, flexible disc, while a sickle cell image depicts the abnormal red blood cells as hard, sticky and C-shaped similar to a sickle.**

REVIEWER'S REPORT

3. These sickled cells, caused by abnormal hemoglobin are less flexible can get stuck in blood vessels and block blood flow, leading to the pain organ damage and anemia characteristic of sickle cell disease.
4. The sickle cell trait offers relative protection against severe malaria because the malarial parasite has a harder time reproducing in sickled cells.
5. Informations and pictures are good. But there is no subheadings like introduction, review, results, discussion, summary and conclusion part. Should be aligned like this way.
6. Key words must be needed.
7. References with number and alphabetical order must be given.
8. Allignments must be needed.
9. Over all corrections and arrangements should be made.
10.   After those proper corrections good to publish in your journal.