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REVIEWER'S REPORT

Manuscript No.: IJAR-54585

Title: HYBRIDMODELFOR DETECTING CYBERSECURITY THREATS BASED ON DEEP LEARNING WITH AN OPTIMISATION ALGORITHM

Recommendation:

Accept as it is .....

Accept after minor revision.....X.....

Accept after major revision .....

Do not accept (*Reasons below*) .....

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

Reviewer Name: Manohar Reddy Sokkula

Detailed Reviewer's Report

Using a neo-fuzzy neural network enhanced with combined PSO and genetic optimization, the manuscript offers a timely and pertinent method for hybrid deep learning-based cybersecurity threat detection. The theoretical formulation and architecture description are well-constructed and follow a logical progression. The subject is in line with recent developments in machine learning and cybersecurity.

It is advised to make only slight changes to enhance presentation quality and clarity. There is no need for significant restructuring or more experiments. The manuscript will be prepared for publication once the minor edits mentioned have been made.

Changes needed:

- **Standardize reference formatting.**

A few references are inconsistent in capitalization and spacing. Ensure uniform IEEE or journal-required style.

- **Improve transitions in the Literature Review.**

Add a brief final paragraph summarizing the gap and how your model addresses it (2–3 sentences).

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- **Add "Intrusion Detection System (IDS)" and "PSO-GA" to the keyword list.**

This will improve indexing and discoverability.

- **Minor grammar and language polish** in a few sentences (e.g., reduce passive voice).

No structural rewrite needed — just wording refinement.

- **Include a short "Limitations / Future Work" statement in the Conclusion.**

One sentence is enough, e.g.:
"Future work may include empirical evaluation on real-time network traffic streams."