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REVIEWER'S REPORT

Manuscript No:- IJAR-56488

Title: Deep Learning Models for Advanced Intrusion Detection in Next-1 Generation Networks

Recommendation:

Accept as it is

Accept after minor revision.....yes.....

Accept after major revision

Do not accept (*Reasons below*)

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

Reviewer's ID: JPR-028

Detailed Reviewer's Report

- The title should be revised to make it more specific by highlighting the **hybrid CNN-LSTM intrusion detection framework and datasets used**.
- The abstract should briefly include the **research gap, methodology, and experimental setup** to better reflect the novelty of the study.
- The introduction should clearly identify the **research gap in existing intrusion detection systems** and explain why the proposed hybrid deep learning model is necessary.
- The objectives and novelty of the study should be **clearly stated at the end of the introduction section**.
- The literature review needs to be expanded with **recent research works (2022–2025)** related to deep learning-based intrusion detection systems.
- The related work section should provide a **critical comparison of existing CNN, LSTM, and hybrid models** instead of only descriptive discussion.
- The authors should clearly highlight the **unique contributions and innovations** of the proposed model compared with existing approaches.
- The dataset description should include **class distribution, number of training and testing samples, and handling of data imbalance**.
- More explanation should be provided regarding the **data preprocessing techniques such as encoding, normalization, and dataset splitting**.
- The methodology section should include **detailed architecture of the CNN-LSTM model**, including number of layers, neurons, filters, and hyperparameters.
- The authors should describe the **software tools or frameworks used for implementation** such as TensorFlow, Keras, or PyTorch.
- The experimental setup should include **hardware specifications, system configuration, and computational environment** used for training the model.
- Additional performance evaluation metrics such as **confusion matrix, ROC curve, and false positive rate** should be included.
- The results section should provide **detailed interpretation and discussion of results** rather than only presenting numerical values.

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15. The proposed model should be compared with **recent deep learning-based intrusion detection models**, not only traditional machine learning algorithms.
16. The figures and tables should be **improved with better captions, explanations, and formatting**.
17. Some sentences in the manuscript require **language editing and grammatical correction** for better clarity and readability.
18. The reference section should include **more recent and relevant research papers from reputed journals and conferences**.
19. The manuscript should include a **separate discussion on limitations of the proposed approach**.
20. The conclusion section should briefly summarize the **key findings, practical implications, and possible future research directions**.