REVIEW REPORT

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REVIEWER REPORT - ISJEM JOURNAL



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Manuscript Title: Ensemble Learning for Network Intrusion Detection Using FT-Transformer and Traditional

Learning Models

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College Name: Jain University Reviewer ID: 3742 – Peer Reviewer

Summary: This study proposes a hybrid ensemble approach combining traditional machine learning models (SVM, Logistic Regression, KNN, Decision Trees, Random Forests) with a Feature Tokenizer Transformer (FT-Transformer) for network intrusion detection. Tested on a simulated US Air Force LAN dataset, the FT-Transformer and voting classifier achieved 99.78% accuracy and 99.75% recall.

Major Points:

- 1. Strengths: The hybrid model's integration of FT-Transformer with ensemble methods significantly enhances detection accuracy. Robust evaluation metrics (precision, recall, F1-score) and detailed preprocessing validate the approach. Applicability to military networks is a key strength.
- 2. Weaknesses: High computational demands of the FT-Transformer may limit real-time scalability. Limited discussion on handling evolving cyberthreats or zero-day attacks.

Minor Points: Including more details on feature selection criteria and real-world deployment challenges would strengthen the paper.

Recommendation: Accepted. The paper presents a novel, high-performing solution for intrusion detection, with minor areas for refinement.

We will soon send an Acceptance Certificate and a confirmation email to the authors' email addresses. Thank you for your work and for waiting during the review!

Status: Approved for Publication

Regards,

Chief Editor, ISJEM Journal