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REVIEWER'S REPORT

Manuscript No.: IJAR- 52846 Date: 18-07-2025

Title:

Sentiment Classification Using Hybrid TextBlob Bi-LSTM Deep Learning Model"

Recommendation:
Accept as it is …… **YES** ……
Accept after minor revision**…**
Accept after major revision ……
Do not accept (*Reasons below*) ……

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

Reviewer Name: Gulnawaz Gani

Comments for Publication

This paper proposes a hybrid TextBlob-Bi-LSTM model that enhances sentiment classification accuracy by combining lexicon-based sentiment scores with bidirectional contextual learning, particularly effective for nuanced emotional expressions.

Reviewer's Comment / Report

- This paper introduces a hybrid TextBlob-Bi-LSTM model for sentiment classification of tweets, demonstrating improved accuracy over traditional LSTM models.
- The strength lies in its intuitive combination of lexicon-based features with deep contextual learning, addressing the limitations of each individual approach.
- However, the evaluation could be more comprehensive by including a comparison with other prominent deep learning architectures for sentiment analysis, such as CNNs or more advanced Transformer-based models, to firmly establish its state-of-the-art performance.
- The paper also mentions the use of "Amazon product reviews" as the dataset for implementation, which contradicts the abstract's focus on "tweets"; clarifying the dataset used for the reported 89.3% accuracy is essential for reproducibility and validity.
- Additionally, a deeper dive into the types of "fine or mixed emotions" where the hybrid model excels would provide valuable qualitative insights.