

Review Form 1.7

Journal Name:	Asian Journal of Research in Computer Science
Manuscript Number:	Ms_AJRCOS_112853
Title of the Manuscript:	Hybrid Deep Learning Model for the Detection and Classification of DDoS Attacks on a Computer Network Infrastructure
Type of the Article	Original Research Article

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Compulsory REVISION comments</p> <ol style="list-style-type: none"> Is the manuscript important for scientific community? (Please write few sentences on this manuscript) Is the title of the article suitable? (If not please suggest an alternative title) Is the abstract of the article comprehensive? Are subsections and structure of the manuscript appropriate? Do you think the manuscript is scientifically correct? Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<ol style="list-style-type: none"> Is the manuscript important for scientific community? YES, it is very important Is the title of the article suitable? <ul style="list-style-type: none"> I think the manuscript is on Classification but not Detection and secondly, I suggest Deep Learning Model be removed from the title. Suggested title should be: Hybrid Approach to Classification of DDoS Attacks on Computer Network Infrastructure. Is the abstract of the article comprehensive? The abstract seems comprehensive but not concise. <ul style="list-style-type: none"> The bolden labelled sections (Aim, Methodology, Results and Conclusion) should be removed and the coined to be part of the abstract The aim in the abstract need to be looked at, for example: <u>hyperparameter tuning</u> should not be an aim of research article, it is a common practice in archiving better accuracy, computation time etc of a model. Provide the original source of the dataset CICDDoS2019. This dataset is not from Kaggle, though it can be downloaded from that platform. Are subsections and structure of the manuscript appropriate? <ul style="list-style-type: none"> The text around Table 1 has to be reformatted in a good presentable format Figure1: is blurred and must be changed, the aspect ratio has to be checked There is no consistency in the tables, compare Table 1 to Table 5 Figure 3: The summary of the classification metrics (Precision, Recall, F1 Score and Accuracy) have to be separated well from the column graph There should be enough spacing between the text for easy readability First time usage of an abbreviation has to be written in full and thereafter the abbreviation can now be used, as demonstrated in the abstract: "...Distributed Denial-of-Service (DDoS) is among the very sophisticated attacks in the cyberspace." The highlighted sentences in dark yellow have to be considered for reconstructions. Concise technical description of the proposed model is missing making it difficult for readers to appreciate the importance of the model to the work. Confusion matrix, ROC curves and training curves should be provided, providing the performance curve along in isolation does not provide the certainty of the model performance. It raises doubt. Provide the accuracy score for each of the session just as done for Precision, Recall and F1 Score in Table 4 Do you think the manuscript is scientifically correct? <ul style="list-style-type: none"> YES Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <ul style="list-style-type: none"> Link to the complete source code on open platforms such as GitHub should be provided 	

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Minor REVISION comments		
1. Is language/English quality of the article suitable for scholarly communications?	YES	
Optional/General comments		

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	Nuku Atta Kordzo Abiew
Department, University & Country	Ghana Communication Technology University, Ghana