

Review Form 1.8

Journal Name:	Journal of Engineering Research and Reports
Manuscript Number:	Ms_JERR_120196
Title of the Manuscript:	Evaluation of Machine Learning Model for Network Anomaly Detection: Support Vector Machine
Type of the Article	Original Research Article

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Is the manuscript important for scientific community? <i>(Please write few sentences regarding this manuscript to justify your answer)</i>	yes	
Is the title of the article suitable? (If not please suggest an alternative title)	yes	
Is the abstract of the article comprehensive?	yes	
Are subsections and structure of the manuscript appropriate?	yes	
Do you think the manuscript is scientifically correct? <i>(Please write few sentences regarding this manuscript to justify your answer)</i>	yes	
Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.	yes	

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<p>Minor REVISION comments</p> <p>Is language/English quality of the article suitable for scholarly communications?</p>		
<p>Optional/General comments</p>	<p>It was a pleasure to review your research, this is an interesting and valuable topic. It has the potential to be published in the future, after minor revisions, including:</p> <ul style="list-style-type: none"> -The paper Addresses the importance of network anomaly detection in cybersecurity for protecting against evolving threats. -The exploration of SVM kernels for network anomaly detection is a well-established research area. The paper could benefit from a clearer demonstration of novelty or a specific contribution beyond existing work. - Clearly articulate the paper's specific contribution or novel aspect in evaluating SVM kernels for network anomaly detection. - Compare the performance of SVM-based approaches with other network anomaly detection techniques, such as anomaly detection algorithms or deep learning models. -Please tidy and polish all of the tables and figures with care. A paper needs to have consistent figures and tables throughout. Please ensure that every figure has a good resolution of 300 dpi. -References to previous studies on Anomaly detection in encrypted HTTPS traffic using machine learning: a comparative analysis of feature selection techniques, such as those found at https://doi.org/10.58496/MJCSC/2022/005 , should be added to the work. This would bolster the claim and allow readers more resources to go deeper into. -English needs to be improved by correcting tense and grammatical errors. -Potential future directions for this research should be discussed by the author in order to increase the impact of the paper. 	

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)
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

Reviewer Details:

<p>Name:</p>	<p>Ahmed H. Ali</p>
<p>Department, University & Country</p>	<p>Iraq</p>