

**Review Form 3**

Journal Name:	<b>Journal of Engineering Research and Reports</b>
Manuscript Number:	<b>Ms_JERR_121396</b>
Title of the Manuscript:	<b>Evaluating the Trade-offs Between Wireless security and Performance in IoT Networks: A Case Study of Web Applications in AI-Driven Home Appliances</b>
Type of the Article	

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**PART 1: Review Comments**

<b>Compulsory</b> 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>
<p><b>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</b></p>	<p>This manuscript is important for the scientific community as it explores the balance between security and performance in IoT networks for AI-driven home appliances. It effectively combines qualitative and quantitative analyses to understand how security measures impact performance metrics. The proposed optimization framework offers practical solutions for real-world applications, providing valuable insights for future technological advancements and security protocols in IoT.</p>	
<p><b>Is the title of the article suitable? (If not please suggest an alternative title)</b></p>	<p>The title is suitable as it clearly reflects the core focus of the manuscript. However, an alternative title that is more concise and specific could be: <i>Securing AI-Driven IoT Networks: A Performance-Centric Analysis of Smart Home Applications</i></p>	
<p><b>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</b></p>	<p>General Statements: <b>Delete</b> "<i>affirming the inherent challenges in achieving an optimal balance between securing user data and maintaining efficient system performance</i>" as it can be concise.  <u>Additions:</u>            1. Scope and Significance: Add a brief introduction about the scope and importance of balancing security and performance in IoT networks.            2. Specific Findings: Include specific findings or contributions of the study, such as quantitative impacts on latency and throughput.            3. Methodology Clarification: Clearly outline the methodology used, like "combining qualitative content analysis with quantitative performance metrics."</p>	
<p><b>Are subsections and structure of the manuscript appropriate?</b></p>	<p>Overall, the subsections and structure of the manuscript are appropriate and well-organized. The flow from introduction to conclusion is logical, and each section contributes effectively to the overall narrative of the research. Minor additions could enhance clarity and provide a more comprehensive understanding of the study's contributions.            Abstract:  <i>Addition: Include specific quantitative findings to provide a clearer snapshot of the study's outcomes.</i>            Introduction:  <i>Addition: Briefly mention the proposed security-performance optimization framework to link it with the subsequent sections.</i>            Methodology:  <i>Addition: Provide a flowchart or diagram to visually represent the methodology for better clarity.</i></p>	
<p><b>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</b></p>	<p>This manuscript is scientifically robust, using comprehensive qualitative and quantitative analyses to explore security-performance trade-offs in IoT networks. Tools like Atlas.ti and Cisco's Packet Tracer ensure rigorous data collection and analysis. The detailed multivariate regression analysis provides clear insights into security protocol impacts. The proposed optimization framework is empirically validated, demonstrating practical relevance and scientific rigor.</p>	
<p><b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b></p>	<p>The manuscript includes a substantial number of references, covering various aspects of IoT, AI, security, and performance. This indicates a thorough review of relevant literature.</p>	

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Minor REVISION comments <b>Is the language/English quality of the article suitable for scholarly communications?</b>	The manuscript uses appropriate technical terminology and follows a clear, logical structure. However, there are a few areas where improvements could enhance readability and clarity: <b>Correct minor grammatical errors and typos that may distract from the content.</b> Example: Ensure subject-verb agreement and proper punctuation. <u>Passive Voice:</u> Reduce the use of passive voice where possible to make the writing more direct and engaging. Example: "Results from the study highlight the significant impact" could be "The study's results highlight the significant impact."	
Optional/General comments	na	

### 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:

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