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| Journal Name: | Asian Journal of Mathematics and Computer Research |
| Manuscript Number: | Ms_AJOMCOR_12537 |
| Title of the Manuscript: | Designing A Secure Ai-Powered Intrusion Detection System For Internet Of Things (Iot) Networks Using Machine Learning |
| Type of the Article | |

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This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

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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> |
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| 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 | The manuscript provides a well-organized and insightful review of machine learning techniques for anomaly detection, specifically in IoT settings, which will be valuable for researchers and practitioners looking to enhance IoT security frameworks. | |

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| <p>this part.</p> | | |
| <p>Is the title of the article suitable? (If not please suggest an alternative title)</p> | <p>The title is not suitable.</p> <p>It implies a primary focus on the design aspects of AI-driven IDS for IoT, but if the content is heavily skewed toward survey or review material, it might not meet reader expectations for methodologies, or practical design strategies.</p> <p>To increase specificity, consider: "AI-Powered Intrusion Detection Systems for IoT Networks: A Comprehensive Review of Machine Learning Approaches and Security Challenges."</p> | |
| <p>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.</p> | <p>Given the title's emphasis on "<i>Designing a Secure AI-Powered Intrusion Detection System</i>," the abstract should more clearly reflect a focus on specific design principles, methodologies, or frameworks for implementing AI-powered IDS in IoT networks. Currently, the abstract reads more like a general review without a strong focus on design in system architecture or implementation strategies.</p> | |
| <p>Are subsections and structure of the manuscript appropriate?</p> | <p>The manuscript's subsections are well-structured, following a logical progression from IoT architecture and security issues to IDS solutions, machine learning techniques, and future directions. This structure makes the document easy to follow and ensures that all critical aspects of the topic are covered comprehensively.</p> <p>AI-powered IDS should be given more importance. There can be a tabular representation to highlight the specific contribution of recent research work in AI-powered IDS for IoT.</p> | |
| <p>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.</p> | <p>It is simply a review paper. The authors have used a wide range of references and analyzed current studies, highlighting gaps and proposing research directions.</p> | |
| <p>Are the references sufficient and recent? If you have suggestions of</p> | <p>The references are recent, relevant, and sufficient. However, including a few recent papers on federated learning and edge</p> | |

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| <p>additional references, please mention them in the review form.</p> <p>=</p> | <p>computing in IoT security would provide additional depth to the discussion on future research directions.</p> <p>Since most references are surveys or reviews, it may indicate a lack of direct engagement with experimental or case-study papers that discuss real-world implementations of AI-powered IDS. Including recent papers that provide experimental results, real-time applications, or comparative analyses of different AI models in IDS could add value.</p> <p>There are overwhelming references, but less insights have been given on AI-powered IDS for IoT. The paper content is less for a review paper with these number of papers.</p> | |
| <p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p> | <p>The language quality of the article appears mostly suitable for scholarly communication.</p> | |
| <p>Optional/General comments</p> | <p>The reviewer commends the manuscript for its organized and insightful review of machine learning techniques for IoT anomaly detection, beneficial for IoT security research. However, the title suggests a design-focused paper, which the content does not fully deliver, and an alternative title is recommended to better match the content. The abstract should emphasize design principles for AI-powered IDS in IoT more clearly, as it currently reads like a general review. While the structure is logical and easy to follow, AI-powered IDS should receive more attention, potentially through a table summarizing recent research contributions. Although the references are recent and relevant, the paper would benefit from fewer surveys and more experimental studies, along with additional content to match the extensive number of references.</p> <p>Based on the provided content and the typical focus of review manuscripts, there do not appear to be any obvious competing interest issues in this manuscript.</p> <p>There is no ethical issues in this paper</p> | |

PART 2:

| | Reviewer's comment | Author's comment <i>(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)</i> |
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| 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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