

Review Form 3

Journal Name:	Asian Journal of Research in Computer Science
Manuscript Number:	Ms_AJRCOS_130099
Title of the Manuscript:	AI-Driven Open Source Intelligence in Cyber Defense: A Double-Edged Sword for National Security
Type of the Article	Original Research

General guidelines for the Peer Review process:

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. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

<https://r1.reviewerhub.org/general-editorial-policy/>

Important Policies Regarding Peer Review

Peer review Comments Approval Policy: <https://r1.reviewerhub.org/peer-review-comments-approval-policy/>

Benefits for Reviewers: <https://r1.reviewerhub.org/benefits-for-reviewers>

Review Form 3

PART 1: Comments

	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.</p>	<p>This manuscript is significant for the scientific community as it explores the dual implications of Artificial Intelligence (AI)-driven Open Source Intelligence (OSINT) in enhancing cyber defense capabilities. Using publicly available datasets, including IBM X-Force breach metrics, MITRE ATT&CK adversarial tactics, GDPR privacy violations, AI-driven phishing incidents, and case-specific data from the Colonial Pipeline ransomware attack and Russia-Ukraine conflict, the research employs multivariate regression, logistic regression, and K-Means clustering. The results highlight AI's transformative potential in cyber defense while emphasizing the need for ethical and regulatory alignment. This study underscores the transformative potential of AI-driven OSINT in enhancing cyber defense capabilities, revealing its ability to improve detection efficiency, accuracy, and scalability while addressing critical threats.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>The title is appropriate and effectively conveys the core focus of the manuscript. However, for better clarity and brevity, it can be revised to 'A Double-Edged Sword for National Security for AI-Driven Open Source Intelligence in Cyber Defense'</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>Abstract is good. It would also be useful to add implication part and future direction to expand its scope and quality. The abstract is a comprehensive summary of the manuscript; however, the abstract can be more informative. The abstract could be more extensive by describing the particular methods applied and the main conclusions. In addition, the above findings will be more useful and implicitly more relevant if the authors also pointed out the practical implications for the university administrators and the policymakers.</p>	
<p>Is the manuscript scientifically, correct? Please write here.</p>	<p>The manuscript contains much good scientific evidence and it is also discussing an equally critical issue in higher education and talent development. It is grounded on sound principles such as cross disciplinary application of teaching approaches, practical learning formats as well as new concepts of quality and productivity. However, it is rather vague on the methods used in the research and as a reader, it makes it difficult to have a clear understanding of the work and evaluate its credibility.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p>The reference list could benefit from additional recent citations to strengthen the study's relevance and situate it within the latest advancements in the field. As of now, the number of references falls short of 10, and there are gaps in covering emerging topics such as digital transformation and recent applications of machine learning in related areas.</p> <p>Suggested Additions to the References:</p> <ol style="list-style-type: none"> 1. Bhuiyan, M. R. I., Faraji, M. R., Rashid, M., Bhuyan, M. K., Hossain, R., & Ghose, P. (2024). Digital Transformation in SMEs: Emerging Technological Tools and Technologies for Enhancing SME Strategies and Outcomes. <i>Journal of Ecohumanism</i>, 3(4), 211-224. <ul style="list-style-type: none"> ○ This reference could provide insights into how SMEs could leverage machine learning for fraud detection. 2. Bhuiyan, M. R. I., Hossain, R., Rashid, M., Islam, M. M., Mani, L., & Milon, M. N. U. (2024). Gravitating the components, technologies, challenges, and government transforming strategies for a Smart Bangladesh: A PRISMA-based review. <i>Journal of Governance & Regulation</i>, 13(3), 177–188. <ul style="list-style-type: none"> ○ This citation could complement discussions on policy implications and governmental roles in fraud detection. 3. UDDIN, K. S., BHUIYAN, M. R. I., & HAMID, M. (2024). Perception towards the Acceptance of Digital Health Services among the People of Bangladesh. <i>WSEAS Transactions on Business and Economics</i>, 21:1557-1570. <ul style="list-style-type: none"> ○ This paper could inform user-centric perspectives, which are indirectly relevant when considering fraud prevention mechanisms. 4. Bhuiyan, M. R. I., Faraji, M. R., Tabassum, M. N., Ghose, P., Sarbabidya, S., & Akter, R. (2024). Leveraging Machine Learning for Cybersecurity: Techniques, Challenges, and Future Directions. <i>Edelweiss Applied Science and Technology</i>, 8(6), 4291-4307. 	

Review Form 3

Is the language/English quality of the article suitable for scholarly communications?	The manuscript uses clear and formal academic language. However, there are minor grammatical inconsistencies and sentence structure issues that need refinement. A thorough language review would enhance readability and ensure alignment with scholarly communication standards.	
Optional/General comments	A thorough copy-editing and proofreading session by a professional editor or the use of advanced grammar-check tools like Grammarly or ProWritingAid is recommended. This will help to correct grammatical errors, refine the academic tone, and ensure consistency throughout the manuscript. Improved language quality will enhance the manuscript's impact and readability for scholarly audiences.	

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:	Provakar Ghose
Department, University & Country	University of New Haven, United States