

**Review Form 1.7**

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|--------------------------|--|
| Journal Name:            | <b>Journal of Engineering Research and Reports</b>   |
| Manuscript Number:       | <b>Original Manuscript_JERR_117685</b>   |
| Title of the Manuscript: | <b>Integration of Machine Learning and Human Expertise for the Improvement of Cybersecurity: Applications and Challenges</b> |
| Type of the Article      |  |

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**PART 1: Review Comments**

|   | 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> |
|---|--|--|
| <p><b><u>Compulsory</u></b> REVISION comments</p> <ol style="list-style-type: none"> <li>1. <b>Is the manuscript important for scientific community?</b><br/>(Please write few sentences on this manuscript)</li> <li>2. <b>Is the title of the article suitable?</b><br/>(If not please suggest an alternative title)</li> <li>3. <b>Is the abstract of the article comprehensive?</b></li> <li>4. <b>Are subsections and structure of the manuscript appropriate?</b></li> <li>5. <b>Do you think the manuscript is scientifically correct?</b></li> <li>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></li> </ol> <p><b><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></b></p> | <p>Advantages:</p> <ol style="list-style-type: none"> <li>1. <b>Analyze massive data to spot hidden threats, even new ones, in real-time.</b></li> <li>2. <b>Automate vulnerability assessments, freeing experts for complex tasks.</b></li> <li>3. <b>Learn from past attacks to anticipate future risks and take preventive measures.</b></li> <li>4. <b>Speed up incident response by automating tasks like quarantining threats.</b></li> <li>5. <b>Continuously monitor systems for suspicious activity and enable faster response.</b></li> </ol> <p>Disadvantages:</p> <ol style="list-style-type: none"> <li>6. <b>Reliant on high-quality data, which can be scarce and impact model performance.</b></li> <li>7. <b>Complex models can be hard to understand, hindering trust and raising bias concerns.</b></li> <li>8. <b>Hackers can exploit weaknesses in models to launch targeted attacks.</b></li> <li>9. <b>Potential biases in algorithms and data privacy issues need careful consideration.</b></li> <li>10. <b>Human experts are crucial for interpreting results, making decisions, and overseeing security.</b></li> </ol> |  |
| <p><b><u>Minor</u></b> REVISION comments</p> <ol style="list-style-type: none"> <li>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></li> </ol>  |  |  |
| <p><b><u>Optional/General</u></b> comments</p>  |  |  |

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**PART 2:**

|   | <b>Reviewer's comment</b>  | <b>Author's comment</b> <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> |
|---|--|---|
| <b>Are there ethical issues in this manuscript?</b> | <i>(If yes, Kindly please write down the ethical issues here in details)</i> |   |

**Reviewer Details:**

|                                  |   |
|----------------------------------|---|
| Name:                            | <b>K. Ravichandran</b>                                  |
| Department, University & Country | <b>DR MGR Educational and Research Institute, India</b> |