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| Book Name: | [**Science and Technology: Developments and Applications**](https://www.bookpi.org/bookstore/product/science-and-technology-developments-and-applications-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4845** |
| Title of the Manuscript:  | **Agentic AI: A Game-Changer in Cybersecurity Defense** |
| Type of the Article | **Book Chapter** |

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| PART 1: Comments |
|  | Reviewer’s comment**Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | 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)* |
| **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.** | **This manuscript contributes significantly to the scientific community by addressing the evolving landscape of cybersecurity through Agentic AI. The findings demonstrate the potential for AI-driven autonomous systems to enhance security defenses, reduce operational overhead, and improve incident response efficiency. Given the growing sophistication of cyber threats, the research provides a much-needed perspective on predictive security measures and AI-driven defense strategies. The study's practical applications in enterprise security and military defense further underscore its relevance.** |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **Yes, the title is appropriate and reflects the core subject of the paper. However, a slight refinement could enhance clarity** |  |
| 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. | **The abstract is well-structured and effectively highlights the core findings. However, some minor refinements are suggested for clarity:*** **Clearly differentiate between the problem statement, methodology, results, and conclusions.**
* **Avoid excessive technical jargon in the abstract to ensure accessibility for a broader audience.**
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| **Is the manuscript scientifically, correct? Please write here.**  | **The manuscript is scientifically sound, but the following improvements are recommended:*** **Provide more explicit details about the datasets used in the evaluation process.**
* **Clarify the methodology for measuring improvements in response time and false positive reduction.**
* **Some statistical analyses need further explanation to justify the reported performance gains.**
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| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | **Most references are recent and relevant. However, the following improvements are suggested:*** **Some sources are more than five years old. Consider updating them with newer studies, particularly regarding deep learning advancements in cybersecurity.**
* **Include references to real-world implementations of AI-driven cybersecurity solutions for additional context.**
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| Is the language/English quality of the article suitable for scholarly communications? | The manuscript is well-written but could benefit from minor grammatical and syntactical refinements. Some sections contain overly complex sentences that could be simplified for better readability. Proofreading by a professional editor would enhance clarity and coherence. |  |
| Optional/General comments |  Figures and diagrams are well-presented but should be referenced more explicitly in the text. The discussion on ethical implications of autonomous security systems is insightful; however, expanding on regulatory challenges would strengthen the argument. |  |

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| **PART 2:**  |
|  | Reviewer’s comment | Author’s comment *(if agreed with the 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?**  | *(If yes, Kindly please write down the ethical issues here in detail)* |  |

**Reviewer details:**

**Anand Laxman Mhatre, United States**