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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 presents a significant advancement in the field of cybersecurity by introducing Agentic Artificial Intelligence (AAI) as a transformative approach to threat detection and incident response. It contributes to the scientific community by demonstrating the superiority of AAI over traditional cybersecurity models, particularly in terms of detection speed, false alarm reduction, and adaptive learning capabilities. The study's empirical findings provide valuable insights into autonomous, collaborative security systems, which are increasingly relevant in mitigating advanced persistent threats (APTs) and large-scale cyberattacks. Furthermore, the manuscript bridges the gap between AI-driven cybersecurity innovation and regulatory/ethical considerations, offering a holistic perspective on the future of autonomous security frameworks in critical infrastructures.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Yes, The title "Agentic AI: A Game-Changer in Cybersecurity Defense" effectively conveys the manuscript's focus on Agentic Artificial Intelligence (AAI) and its transformative role in cybersecurity defense.** |  |
| 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 of the article is generally comprehensive and effectively highlights the key contributions of Agentic Artificial Intelligence (AAI) in cybersecurity. It clearly presents the problem statement, methodology, key findings, and implications, making it informative for readers.** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **Yes, The manuscript is scientifically sound and presents a well-structured analysis of Agentic Artificial Intelligence (AAI) in cybersecurity defense. It is based on established AI principles, machine learning techniques, and cybersecurity frameworks.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **The references cited in the manuscript are mostly recent and relevant, with the majority of sources published between 2019 and 2024, ensuring that the study is based on current advancements in cybersecurity, AI, and Agentic Artificial Intelligence (AAI).** |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes, the language and English quality of the article are generally suitable for scholarly communication, but there are areas that require refinement for clarity, conciseness, and coherence. |  |
| Optional/General comments | This manuscript presents an innovative approach to Agentic Artificial Intelligence (AAI) in cybersecurity defense, highlighting its potential to enhance threat detection, incident response, and system resilience. The study effectively demonstrates how AAI outperforms traditional cybersecurity systems by leveraging autonomous decision-making, deep learning, and distributed collaborative agents. The manuscript is well-structured and supported by experimental findings, making it a valuable contribution to cybersecurity research. |  |

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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:**

**Rakibul Hasan Chowdhury, International Institute of Business Analysis, USA**