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| Book Name: | **Post-Quantum AI: Building Secure Machine Learning Systems in the Quantum Era** |
| Manuscript Number: | **Ms\_BPR\_6323** |
| Title of the Manuscript: | **Post-Quantum AI: Building Secure Machine Learning Systems in the Quantum Era** |
| Type of the Article | **Complete Book** |

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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.** | * The manuscript focuses on an emergent topic of artificial intelligence and quantum computing convergence. * The manuscript specifically highlights post-quantum cryptography, quantum-safe AI design, and ethical aspects of quantum and AI technology, all of which are essential for secure machine learning system preparation in the quantum age. * The topic is relevant considering the worldwide AI and quantum technology investments. * The manuscript helps cybersecurity, AI, and computational science researchers, policymakers, and practitioners by providing a detailed discussion of the subject’s technical and ethical issues, which is outstanding. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | * The current title is clear, concise, and suitable. * It reflects both the scope of AI and security in the context of post-quantum. * No change required. |  |
| 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 detailed however the author could Summarize the key contributions like frameworks, algorithms, case studies more explicitly * Avoid using the arative sentence and also add the statement about future research directions |  |
| **Is the manuscript scientifically, correct? Please write here.** | * Though the chapter is scientifically sound there are some concer like * Some sentence are written in informal style like you and you see , Cool . Check page 2 section A line 1 and is present through out the chapter * In most of the places the technical explanation could be more precise example check “Differences between classical and quantum computing” |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | * References are fairly recent and sufficient, with citations up to 2024–2025. * Reference are repeated “Murali Krishna Pasupuleti. "Quantum Intelligence: Machine Learning Algorithms for Secure Quantum Networks" 2025, doi: <https://www.semanticscholar.org/paper/64d2d2e42bdf2fefde62fba4dedc826dd5a5860d>” * Murali Krishna Pasupuleti. "Quantum Intelligence: Machine Learning Algorithms for Secure Quantum Networks" 2025, doi: https://www.semanticscholar.org/paper/64d2d2e42bdf2fefde62fba4dedc826dd5a5860d   Repeated more than 15 times   * Many in-text citations are written inconsistently (e.g., “(Pasupuleti MK)” without full detail – this citation is not clear * Yogesh K. Dwivedi, Nir Kshetri, Laurie Hughes, Emma Slade, Anand Jeyaraj, Arpan Kumar Kar, Abdullah M. Baabdullah, et al.. "Opinion Paper: “So what if ChatGPT wrote it?” Multidisciplinary perspectives on opportunities, challenges and implications of generative conversational AI for research, practice and policy" International Journal of Information Management, 2023, 102642-102642. doi: <https://doi.org/10.1016/j.ijinfomgt.2023.102642> - To many referene |  |
| Is the language/English quality of the article suitable for scholarly communications? | Eliminate informal expressions.  Shorten overly long sentences for clarity.  Ensure consistency in technical terms. |  |
| Optional/General comments | Table Reference is missing The manuscript is scientifically sound, comprehensive, and timely. Main revisions required are language refinement, consistent citation formatting, and inclusion of figures/diagrams where referenced.  While the manuscript is scientifically robust and references recent work, it would benefit from revisions to improve scholarly tone, ensure consistency in citation formattin. Some sections are slightly informal or repetitive and should be tightened to align with academic writing standards. These are minor revisions and do not affect the scientific validity of the work.  Overall, this is an important contribution that advances discourse on secure AI in the quantum era, balancing technical rigor with ethical foresight. I recommend acceptance after minor revision. |  |

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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)*  No major ethical issues detected. The manuscript discusses ethical considerations of AI in a post-quantum world appropriately. |  |

**Reviewer details:**

**Sridevi PC, Takshashila University, India**