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| Book Name: | **Advancements in Science and Technology: Paving the Way to a Sustainable Future** |
| Manuscript Number: | **Ms\_BPR\_4465.6** |
| Title of the Manuscript: | **Artificial Intelligence: Catalyst for a sustainable future** |
| 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 is highly important for the scientific community as it explores the intersection of Artificial Intelligence (AI) and sustainability, offering valuable insights into how AI technologies can be harnessed to address pressing global challenges such as climate change, resource optimization, and environmental conservation. It provides a comprehensive overview of AI's potential across various sectors like agriculture, healthcare, energy, and urban development, highlighting the opportunities and challenges involved. Furthermore, the manuscript contributes to a growing body of literature on the ethical and practical implications of integrating AI into sustainability efforts, making it an essential read for researchers, policymakers, and industry leaders seeking to understand AI’s role in building a more resilient and sustainable future. By emphasizing the need for a collaborative, interdisciplinary approach, this work lays the groundwork for future innovations that could drive meaningful, positive change on a global scale.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **The title is appropriate but can be refined for clarity. A possible alternative could be: "Harnessing Artificial Intelligence for Advancing Sustainability: Innovations and Challenges."** |  |
| 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 provides a general overview but could be expanded to include more specific examples of AI applications, particularly in energy management and waste reduction. Including the implications for policy-making and economic transition would also enhance the clarity of the article’s impact.** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **Yes, the manuscript appears to be scientifically sound. It outlines the current and potential applications of AI in sustainability fields with accurate references to the technologies discussed. Further, it offers a balanced perspective on the challenges and benefits associated with these applications.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **The references are well-chosen and recent. However, including additional references on the intersection of AI and environmental economics, as well as updated reviews from the past year, could strengthen the manuscript’s relevance. Consider incorporating sources that address AI’s economic impact in the green tech sector.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes, the language is clear and appropriate for scholarly communication. However, some sentences could be restructured to improve readability. A thorough revision of certain paragraphs would make the manuscript more concise and engaging. |  |
| Optional/General comments |  |  |

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| **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?** | *(If yes, Kindly please write down the ethical issues here in details)* |  |

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| **Reviewer Details:** | |
| Name: | **Janifer Nahar** |
| Department, University & Country | **Louisiana State University, United States of America** |