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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. Authors must 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 describes AI's function in redefining development in a variety of sectors such as in agriculture, medical care, efficiency in terms of energy, and urban planning, and it deals with a critical discussion about AI and its role in contributing towards effective management of resources, decision-making, and innovation for achieving development in a sustainable manner. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | Yes, the manuscript title "Artificial Intelligence: Catalyst for a Sustainable Future" is appropriate and aligns well with the manuscript's focus. |  |
| 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 broad overview of the manuscript's themes, emphasizing AI’s role in sustainability across various sectors and its potential for addressing challenges. Including specific examples of AI applications in sectors such as agriculture or renewable energy. |  |
| **Is the manuscript scientifically, correct? Please write here.**  | Yes, the manuscript article is sound in its scientific basis, with proper and referenced information about AI in a variety of areas of sustainability. Some sections, such as AI in healthcare and waste management, can benefit from additional quantitative information and real-life case studies to make statements even more effective. |  |
| **Are the references sufficient and recent? If you have suggestions for additional references, please mention them in the review form.****-** | Yes, the references are adequate and comprise a mix of recent and foundational studies. Nonetheless, some citations appear outdated, especially on AI applications in healthcare and urban sustainability.  |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes, the language is professional and appropriate for scholarly communication. Nonetheless, some sentences are overly verbose and could be streamlined for clarity.  |  |
| Optional/General comments | The manuscript is a rich and in-depth examination of AI in driving sustainability in numerous industries. It will bring out AI's transformational potential and list important challenges in terms of consumption of energy and ethics, for example. The multidisciplinarity is of a lot of value, but including supplementary quantitative information and current case studies in underpinnings, and key statements will make a significant improvement. Defining specific technical terms and clarifying long sentences will make it easier to comprehend and readable for a larger portion of the scientific community. |  |

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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: | **Md Rokibul Hasan** |
| Department, University & Country | **Gannon University, USA** |