

Review Form 3

Book Name:	Science and Technology: Developments and Applications
Manuscript Number:	Ms_BPR_ 3923
Title of the Manuscript:	Sustainable Artificial Intelligence (AI): Challenges Confronted
Type of the Article	Book chapter

PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
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.	<p><b>Strengths:</b></p> <p><b>Scope:</b> The paper covers a wide range of issues related to sustainable AI, including environmental impact, social concerns, and economic challenges.</p> <p><b>Structure:</b> The structure is logical, with an introduction, discussion of challenges in different domains (environment, social, and economic), and a conclusion with future work.</p> <p><b>Areas for Improvement:</b></p> <p><b>Deeper Dive into Challenges:</b> While the paper identifies various challenges, a deeper analysis of each challenge and its potential solutions would strengthen the content.</p> <p><b>Data and Figures:</b> While figures are mentioned, including them within the paper would improve readability and enhance the impact of the presented information.</p> <p><b>Terminology:</b> Some terms like "digital universe" could be simplified for a broader audience.</p> <p><b>Suggestions:</b></p> <ul style="list-style-type: none"><li>Consider dedicating a section to each sustainability pillars (environment, social, and economic) and go deeper into the specific section detailing challenges faced by AI in each domain.</li><li>Provide concrete examples of how AI implementation might negatively impact these areas.</li><li>Suggest potential solutions or mitigation strategies to address these challenges and achieve sustainable AI.</li><li>Include the figures mentioned within the text and properly reference them.</li><li>Consider using simpler language where appropriate while maintaining the technical aspects of the topic.</li></ul>	
Is the title of the article suitable? (If not please suggest an alternative title)	<p><b>I would like suggest possible alternative titles</b></p> <p>Achieving Sustainable AI: Confronting the Challenges</p> <p>The Sustainability of AI: A Critical Analysis</p>	

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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.	<b>Suggested Improvements:</b> <b>State the research problem:</b> For example, "This study investigates the potential negative impacts of AI development and deployment on environmental, social, and economic sustainability." <b>Summarize the methodology:</b> Briefly mention the research approach used (e.g., literature review, case studies, data analysis) to investigate the challenges. <b>Highlight key findings:</b> Briefly summarize the main findings of the study, such as the identification of specific areas where AI poses significant sustainability challenges (e.g., environmental impact of data centers, job displacement due to automation). <b>Emphasize the significance of the research:</b> Explain how the findings contribute to the understanding of sustainable AI development and can inform the creation of more responsible AI systems. <b>Use clear and concise language:</b> Avoid jargon and ensure that the language is easy to understand for a broader audience.	
Is the manuscript scientifically, correct? Please write here.	<b>Inaccurate and Misleading Statements:</b> "AI and its supporting tools and technologies have carried away our life practices into a digital world where automation techniques, robotics support and advance ML algorithms have streaked physical activities." This statement is overly dramatic and lacks scientific basis. AI has indeed transformed many aspects of life, but it's inaccurate to say it has "carried away" our lives or that physical activities have been "streaked." <b>Lack of Scientific Rigor:</b> The abstract lacks specific research questions, methodology, and findings. It uses vague and subjective terms like "thoughtfulness" without providing a clear definition or explanation. The claims about AI's impact on various domains are not supported by evidence or specific examples. <b>Inaccurate or Oversimplified Statements:</b> "Our daily chores are executed under AI umbrella" is an oversimplification. While AI is increasingly present in our lives, it doesn't encompass all daily activities.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Yes	
Is the language/English quality of the article suitable for scholarly communications?	Yes	
<u>Optional/General</u> comments		

PART 2:

	<u>Reviewer's comment</u>	<u>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)</u>
<u>Are there ethical issues in this manuscript?</u>	<u>(If yes, Kindly please write down the ethical issues here in details)</u>	

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Reviewer Details:

<b>Name:</b>	<b>Moyinuddeen Shaik</b>
<b>Department, University &amp; Country</b>	<b>USA</b>