

Review Form 3

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_128530
Title of the Manuscript:	AI-Driven Insights into Soil Physio-Chemical Properties
Type of the Article	Review Article

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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.	Since it addresses the critical demand for accuracy in soil management and sustainable agriculture, this manuscript is important to the scientific community. The study provides innovative methods for increasing agricultural productivity while preserving biodiversity by using artificial intelligence to assess and forecast soil characteristics. Integrating AI-driven insights enhances soil assessments, supports data-driven decision-making, and reduces reliance on labor-intensive, traditional approaches.	
Is the title of the article suitable? (If not please suggest an alternative title)	This title is suitable for the manuscript.	
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 looks like introduction to the review, It needs to be comprehensive with clear objectives, methodology and key findings incorporated in it.	
Is the manuscript scientifically, correct? Please write here.	The manuscript is scientifically correct but little more	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Reference is insufficient, more references for each section are needed. Few suggested references are given below Hoque and M. Padhiary, "Automation and AI in Precision Agriculture: Innovations for Enhanced Crop Management and Sustainability," <i>Asian J. Res. Comput. Sci.</i> , vol. 17, no. 10, pp. 95–109, Oct. 2024, doi: 10.9734/ajrcos/2024/v17i10512. M. Padhiary and R. Kumar, "Enhancing Agriculture Through AI Vision and Machine Learning: The Evolution of Smart Farming," in <i>Advances in Computational Intelligence and Robotics</i> , D. Thangam, Ed., IGI Global, 2024, pp. 295–324. doi: 10.4018/979-8-3693-5380-6.ch012. M. Padhiary, P. Roy, P. Dey, and B. Sahu, "Harnessing AI for Automated Decision-Making in Farm Machinery and Operations: Optimizing Agriculture," in <i>Advances in Computational Intelligence and Robotics</i> , S. Hai-Jew, Ed., IGI Global, 2024, pp. 249–282. doi: 10.4018/979-8-3693-6230-3.ch008. M. Padhiary, "The Convergence of Deep Learning, IoT, Sensors, and Farm Machinery in Agriculture," in <i>Designing Sustainable Internet of Things Solutions for Smart Industries</i> , IGI Global, 2024, pp. 109–142. doi: 10.4018/979-8-3693-5498-8.ch005.	

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<p>Is the language/English quality of the article suitable for scholarly communications?</p>	<p>More LLM languages are found, it should be rephrased and modified, otherwise English quality is good for scholarly communication.</p>	
<p>Optional/General comments</p>	<ol style="list-style-type: none"> 1. Include objectives, methodology and outcomes in abstract. 2. Please rephrase and modify the text of the article and avoid LLM and AI texts. 3. Give numeration to sections and subsections 4. Try to add some flowchart or conceptual diagrams for better visualization and understanding of the readers. 5. Introduce a section for different techniques and types of modern equipment's and sensors available in present scenario, which can be improved with AI applications 6. Also introduce a section for ethical and security issue for adoption of AI for smart technology. 7. Whenever some numerical results are discussed cite the references for each and assertive statements. 8. Conclusion is too length, please concise it with clear findings with numeric results. 9. Put abbreviations afterward after defining at the first mentioning in the manuscript. Artificial Intelligence(AI) is seen everywhere, please use AI instead. 10. Tables are not captioned, they must be merged with a single table with references. 11. Avoid excessive bullet points, better to make them in subsections with paragraphs. 12. Application and examples needs to be elaborated with proper references. 	

PART 2:

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

Reviewer Details:

<p>Name:</p>	<p>Mrutyunjay Padhiary</p>
<p>Department, University & Country</p>	<p>Assam University, India</p>