

Review Form 3

Journal Name:	Journal of Experimental Agriculture International
Manuscript Number:	Ms_JEAI_128203
Title of the Manuscript:	Leveraging Machine Learning Techniques in Agriculture: Applications, Challenges, and Opportunities
Type of the Article	Review Article

PART 1: Comments

	Reviewer's comment	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.	<i>The paper is valuable to the scientific community, particularly for young researchers, as it provides a review of the specialized literature and an abstract-level description of ML methods and algorithms that can be implemented in agriculture, with potential applicability in other fields as well. Agriculture is a major global issue, closely tied to other critical challenges such as climate change and demographic problems. However, it does not include specific examples or concrete data regarding the practical implementation of these methods and algorithms. In „Conclusion”, it is stated that "ML technologies have improved the environmental impact of agricultural activities," but this claim is not supported by specific details or evidence.</i>	
Is the title of the article suitable? (If not please suggest an alternative title)	<i>The title of the article is representative and fully reflects the content.</i>	
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.	<i>The summary succinctly captures the structure of the article, is relevant, and comprehensively reflects its content.</i>	
Is the manuscript scientifically, correct? Please write here.	<i>The paper meets scientific standards and serves as a literature review, providing an abstract description of the ML methods and algorithms that can be implemented in agriculture, It examines the application of Machine Learning (ML) methods, techniques, and algorithms in agriculture, a vital sector of the economy both nationally and globally. However:</i> <ul style="list-style-type: none"> <i>The described technologies (IoT, cloud computing, AI, Big Data analysis, advanced detection technologies, autonomous robotics, and decision support systems (DSS)) represent Agriculture 5.0, not 4.0;</i> <i>The paper does not offer specific examples or concrete data on the implementation of these methods.</i> 	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	<i>The references are representative and reflect recent studies in the field of implementing emerging technologies in agriculture.</i>	
Is the language/English quality of the article suitable for scholarly communications?	<i>The article is characterised by a lack of numerous and/or obvious grammar, stylistic etc. mistakes. The article is not plagued by slang terms which would make it unsuitable for scholarly communications.</i>	
<u>Optional/General</u> comments		

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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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