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| Book Name: | [**Current Research Progress in Agricultural Sciences**](https://www.bookpi.org/bookstore/product/current-research-progress-in-agricultural-sciences-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4722** |
| Title of the Manuscript: | **Efficient Detection of Soil Nutrient Deficiencies through Intelligent Approaches** |
| Type of the Article | **Book Chapter** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**Bionature, 43(2): 6-15, 2023.**

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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 significant for the scientific community as it highlights the critical role of soil nutrient management in enhancing agricultural productivity and sustainability. By integrating intelligent approaches such as AI and machine learning, it provides a framework for accurate and efficient detection of soil nutrient deficiencies, which is essential for informed decision-making in farming practices. The research underscores the necessity for collaboration among farmers, technology providers, and agricultural experts to foster innovation and knowledge sharing. Furthermore, it contributes to the growing body of literature on precision agriculture, offering insights that can guide future research and development in sustainable farming practices.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Yes** |  |
| 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 is comprehensive as it outlines the use of AI and machine learning in detecting soil nutrient deficiencies, the limitations of traditional methods, and the benefits of intelligent approaches. However, I suggest including a statement about the potential environmental benefits of improved nutrient management would enhance the abstract's completeness. Lastly, a sentence on future research directions could provide a forward-looking perspective.** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **Yes, the manuscript appears to be scientifically correct as it discusses established concepts in soil nutrient management and the application of AI and machine learning technologies.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | **I suggest adding recent articles on advancements in AI applications in agriculture.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | **A thorough proofreading and editing process would enhance the overall clarity and professionalism of the manuscript, ensuring it meets the high standards expected in academic publications.** |  |
| Optional/General comments | **This chapter presents a timely and relevant discussion on the integration of intelligent approaches in soil nutrient management, highlighting the potential benefits of AI and machine learning. To enhance its impact, consider including more specific case studies or examples of successful implementations in agriculture, which would provide practical insights for readers. Additionally, addressing potential challenges and limitations of adopting these technologies could offer a more balanced perspective and encourage further research in this area. Overall, this chapter has a solid foundation and with some refinements, it can significantly contribute to the field.** |  |

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| **PART 2:** | | |
|  | Reviewer’s comment | Author’s comment *(if agreed with the 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?** |  |  |

**Reviewer details:**

**Shilpa K C, Pes Institute Of Technology And Manaagement, India**