

**Review Form 3**

Journal Name:	<b>Asian Journal of Research in Computer Science</b>
Manuscript Number:	<b>Ms_AJRCOS_120353</b>
Title of the Manuscript:	<b>Synergizing Random Forest and K-Means Algorithms: An Analytical Study for Precise Crop Recommendation in Southeast Asia</b>
Type of the Article	

## Review Form 3

### PART 1: Review Comments

<b>Compulsory</b> REVISION 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 few sentences regarding the importance this manuscript for scientific community. Why do you like (or dislike) this manuscript? Minimum 3-4 sentences may be required for this part.	This manuscript assists in identifying specific environmental needs for various crop groups, such as those that prefer humid settings with copious amounts of rainfall and nutrient richness against others that thrive in desert environments with little rainfall and nutrient content. This work highlights how crop selection can be matched to appropriate environmental circumstances using machine learning models, which can improve agricultural production and enable more accurate agricultural decision-making.	
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 addition (or deletion) of some points in this section? Please write your suggestions here.	The abstract should briefly mention the key results and their implications. Please add a sentence summarizing the main findings and their significance.	
Are subsections and structure of the manuscript appropriate?	Yes.	
Please write few sentences regarding the scientific correctness of this manuscript. Why do think that this manuscript is scientifically robust and technically sound? Minimum 3-4 sentences may be required for this part.	This article presents the significance of machine learning models in building a crop recommender system which is very much helpful for agricultural community. The authors used Random Forest classifier to classify the crops according to natural environmental condition. Apart from this, K-means clustering is also employed to focus on segmenting crops into clusters based on similarities in their environmental conditions. This together helps in recommending the crops to be cultivated according to the environment.	
Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.	Include at least three papers of crop recommendation system from the year 2023.	
<u>Minor</u> REVISION comments		
Is language/English quality of the article suitable for scholarly communications?	The grammar should be checked.	
<b>Optional/General</b> comments	<ol style="list-style-type: none"> <li>1. The introduction should include the need for crop recommendation system and should include the background of recommendation system to enable the readers to understand in depth.</li> <li>2. In Figure 2, the flow for test set is not mentioned.</li> <li>3. The dataset description should include the number of crop varieties taken for evaluation along with amount of data under each category.</li> <li>4. In conclusion section, add the limitations of the proposed method.</li> </ol>	

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**PART 2:**

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

**Reviewer Details:**

Name:	<b>R. Bhavani</b>
Department, University & Country	<b>Annamalai University, India</b>