

Review Form 3

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_122397
Title of the Manuscript:	A Comparative Study of Multivariate Clustering Algorithms for Climate Variables and Chickpea Production in Dharwad District of Karnataka
Type of the Article	Original Research Article

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PART 1: Review Comments

Compulsory 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 a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.		
Is the title of the article suitable? (If not please suggest an alternative title)		
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.		
Are subsections and structure of the manuscript appropriate?		
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.		
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.		

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<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>		
<p>Optional/General comments</p>	<p>Comments:</p> <p>1) Why only few factors are being considered for estimating the production of chickpeas when there are a greater number of atmospheric variables available? If taken like nutrient supplements taken then the effect of clustering is improved than other techniques?</p> <p>2) Has the author considered clustering the data into more no of clusters as per Table 1 only 1 cluster is formed in DBSCAN, why not divide the data set into more clusters is the accuracy improved or lowered?</p> <p>3) Why K-Means have shown significant estimation when there is inappropriate clusters are formed, one technique DBSCAN with 1 cluster and Hierarchical, K-Means with 5 clusters formed? Justify</p> <p>4) Can the author explain why there are no outliers formed in the K-Means, how are the outlier points considered in the work?</p> <p>5) In the Table 2 author have produced the average production, there can be better explanation of how the average is calculated from the clusters formed?</p> <p>6) The work by Shoba and Asha have produced the similar results then whats the change in the present work?</p>	

PART 2:

	<p>Reviewer's comment</p>	<p>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)</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:

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