

Review of: "Adoption of Machine Learning Methods for Crop Yield Prediction-based Smart Agriculture and Sustainable Growth of Crop Yield Production – Case Study in Jordan"

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Potential competing interests: No potential competing interests to declare.

Dear Corresponding Author,

I am grateful to you for the valuable research. Kindly consider and implement the following points:

1. What is the innovation and originality of the research? Please highlight it in the context.
2. What environment was chosen for modeling processes (all or each of the algorithms)? Please mention it in the relevant section.
3. I would be grateful if you could explain in detail about the training and testing subsets (number of samples and variables in calibration/validation subsets, etc.).
4. Which indicators were utilized to measure the precision between the different algorithms (model accuracy measurement between different algorithms)?
5. It is better to point out whether the higher MSE/MSD is better or lower. Please state it in the model analysis section.
6. Please specify the most influential factors in the modeling process in a separate table (according to the correlation coefficient).
7. I would be thankful if you could explain how the EDA approach can reveal the patterns and relationships between the variables. An elaborative description is needed in the results and discussion.
8. Is there any cause and effect analysis for the reasons why the MLR and Lasso-R algorithms outperformed other algorithms? If so, please include it in an appropriate part of the results/discussion section.
9. What were the environmental and agricultural variables? You are definitely knowledgeable about the parameters affecting crop yield, such as climate, soil, organisms, etc. In other words, the ML algorithms can perform best when the entries are more diverse and comprise these environmental and soil parameters. So if you could kindly list the main variables in the table, it would be greatly appreciated.

Best,



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