

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.

Relevance and Novelty

The paper addresses a crucial issue in agricultural forecasting by applying machine learning techniques to crop yield prediction. The use of regression and other machine learning algorithms represents a novel approach in this domain, offering potential improvements over traditional methods.

While the application of machine learning is relevant, the paper could benefit from a clearer explanation of how it advances beyond existing methods. More emphasis on the novel aspects of the approach would strengthen the contribution.

Data Handling

The data sources used are relevant and well-documented, and the preprocessing steps are detailed, which adds credibility to the results.

The paper lacks detailed information on the data preprocessing steps and feature selection. Providing more insight into how these processes were handled and their impact on model performance would improve the clarity of the methodology. Practical work screenshots can be added here.

Experimental Design and Validation

Clarity and Presentation

The paper is well-organized, with clear figures and tables that effectively support the findings. The writing is generally clear and concise. There is insightful analysis of the performance of different machine learning algorithms in the context of crop yield prediction. The paper lacks a discussion on the potential limitations of the proposed methods and their applicability in different agricultural contexts. There is insufficient detail on the data sources and preprocessing steps, which could affect the reproducibility of the results.

Conclusion and Recommendation

Overall, the paper presents a promising approach to crop yield prediction using machine learning. However, addressing

the points mentioned above would significantly enhance its contribution to the field.