Review Form 1.7

Journal Name:	**Asian Journal of Probability and Statistics**
Manuscript Number:	**Ms_AJPAS_103426**
Title of the Manuscript:	**RANDOM FOREST REGRESSION IN MAIZE YIELD PREDICTION**
Type of the Article	**Original Research Article**

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty'**, provided the manuscript is scientifically robust and technically sound.
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PART 1: Review Comments

	Reviewer's comment	**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)*
Compulsory REVISION comments 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. (Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)	No, it is important that authors have to discuss technological solutions may contribute to improving yield prediction, and the Machine Language area has an essential role in this context. Performing yield prediction with only the spectral information of a plant is a challenging scientific task. Related to maize-yield, the existing literature not presents some information about the yield estimation with machine learning techniques. Authors of this manuscript have to be tested several combinations of ML algorithms using a group of machine learning techniques will be better for scientific community. Title is not ok if it is related to research article, it can be modified as "Analysis and prediction of maize yield crops using machine learning approach" Abstract of this manuscript is comprehensive and the objective is very clear no modifications are required Subsection part has to be reorganized as there is not properly studied existing work or related work and there is no research flow or design architecture presented. If the Authors explores the following issues then it will be correct for scientifically acceptable. Issues:-Authors have to focus more and more discuss comparative study with existing research and proposed research issues and The necessary approach for obtaining optimal solution in this research problem has utilizes data analytics .More study required about environmental readings, soil quality, and economic viability have made it relevant for the agricultural industry to use such information and make crucial decisions based on proper predictions. The proposed work not explores the use of Random Forest regression analysis on agricultural data in predicting Maize Yield crop. Authors must be discussed based on major classification methods which show considerable success. Not sufficient and much more references might have cited, due to poor literature review 1. Conceptual framework of the study that was not explained the methodology of random forest regression models with different input requirements to predict maize crop yield. 2. Input requirements of different Random Forest (RF) models has to be implemented using the 'random Forest' and that has represents to climate variables. 3. overall there is no enough comparison of models to justify the contributions of this work. 4.The simplicity and reliability of the present study conclude that this prediction needs to be implemented for different periods, locations, and crop types to improve the global maize yield prediction for developing agricultural policies, improving food security, forecasting, and analyzing global trade trends could be much better for this research work 5. The research article study design needs to be implemented for different periods, locations, and crop types to improve the global maize yield prediction 6. The findings of this study will not go a long way to enhance reliance on data for agriculture and climate change related decisions based on the predictions, especially in low-to-middle income countries such as Kenya.	
Minor REVISION comments 1. Is language/English quality of the article suitable for scholarly communications?	Language is ok, but not so much scholarly communicative	

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Optional/General comments	Historical maize crop yields and weather conditions comprised the data, with weather variables (i.e., rainfall and temperature) must be used as predictors. In addition, the analysis of the correlation between weather variables and crop production has been carried out with this research work. The optimum values of rainfall and temperature at each crop development stage for the optimal maize crops yield have to be identified as explained in the discussion section is more required.	

PART 2:

	Reviewer's comment	**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)*
Are there ethical issues in this manuscript?	*(If yes, Kindly please write down the ethical issues here in details)*	

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