

### Review Form 3

Journal Name:	<a href="#">Journal of Geography, Environment and Earth Science International</a>
Manuscript Number:	Ms_JGEESI_128786
Title of the Manuscript:	Land Use Land Cover Classification of Dang District Using Satellite Imageries and Machine Learning Algorithms on Google Earth Engine Platform.
Type of the Article	Original Research Article

#### General guidelines for the 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. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

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#### Important Policies Regarding Peer Review

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#### PART 1: 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>
<b>Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.</b>	This manuscript holds significant importance for the scientific community as it employs advanced satellite imageries and machine learning algorithms for land use and land cover (LULC) classification in the Dang District. By utilizing the Google Earth Engine platform, the study offers an efficient and scalable methodology for analyzing and monitoring spatial changes, which is crucial for informed decision-making in land management, urban planning, and environmental conservation.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	The title is clear and descriptive, but it could be streamlined to make it more concise. Here's an alternative suggestion:  <b>"Land Use and Land Cover Classification of Dang District Using Satellite Imagery and Machine Learning on Google Earth Engine"</b>	
<b>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.</b>	The abstract is comprehensive and provides a clear summary of the study's objectives, methodology, and results. However, here are three suggestions for improvement: <ol style="list-style-type: none"> <li><b>Focus on Key Findings:</b> Highlight the superior performance of the CART model and its implications more prominently in the conclusion for better emphasis on the study's significance.</li> <li><b>Streamline Methodology Details:</b> While informative, some technical details (e.g., specific satellite indices and cloud masking) can be condensed to make the abstract more concise.</li> <li><b>Context and Applications:</b> Briefly mention the practical applications or potential benefits of the study's findings for land management or planning in the Dang district.</li> </ol>	
<b>Is the manuscript scientifically, correct? Please write here.</b>	The manuscript titled " <b>Land Use Land Cover Classification of Dang District Using Satellite Imageries and Machine Learning Algorithms on Google Earth Engine Platform</b> " appears to be scientifically accurate. It utilizes advanced machine learning algorithms integrated with satellite imagery on the Google Earth Engine platform, a robust method for land cover classification. However, its accuracy should be validated through a detailed review of the methodology, data quality, and model performance metrics.	
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b>	To assess whether the references are sufficient and recent, I recommend checking if they include studies from the past years, particularly focusing on machine learning algorithms, land use/land cover classification, and applications of Google Earth Engine. key works are missing, suggest including recent papers from journals like <i>Remote Sensing</i> , <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , or <i>Environmental Monitoring and Assessment</i> .	

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<b>Is the language/English quality of the article suitable for scholarly communications?</b>	The article contained several English Grammar mistakes that needed correction.	
<b>Optional/General</b> comments	<p>Here are some optional/general comments for the manuscript titled <i>Land Use Land Cover Classification of Dang District Using Satellite Imageries and Machine Learning Algorithms on Google Earth Engine Platform</i>:</p> <ol style="list-style-type: none"><li><b>Clarity and Readability:</b> The manuscript is generally well-written and presents the methods and results clearly. However, certain technical terms (e.g., satellite indices, machine learning algorithms) may benefit from brief explanations or references for readers who are less familiar with the field.</li><li><b>Methodology Details:</b> The use of cloud masking and median composite is crucial to ensuring high-quality data, but additional clarity on how these steps specifically enhance classification accuracy in the context of the study area would be helpful.</li><li><b>Results Interpretation:</b> While the accuracy and Kappa coefficient values are presented clearly, providing more context on what these values mean for practical land-use classification (e.g., decision-making, policy implications) would strengthen the significance of the findings.</li></ol>	

### **PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (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)
<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:**

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