Review Form 3

Journal Name:	Archives of Current Research International
Manuscript Number:	Ms_ACRI_123953
Title of the Manuscript:	Digital Fuel Monitoring System using Tilt Sensors and Cloud Data Processing for Enhanced Fleet Operations of Agricultural Machineries – A Technology Initiation
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:

https://r1.reviewerhub.org/general-editorial-policy/

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that
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.	The work is very much interesting. This manuscript presents a novel IoT-based fuel monitoring and tracking system that addresses the limitations of traditional fuel gauges, offering real-time data for enhanced fleet management. The integration of accelerometers, GPS, and cloud computing provides a comprehensive solution for fuel efficiency optimization and proactive route planning. This research is significant for the scientific community as it demonstrates the practical application of IoT in improving operational efficiency and reducing environmental impact in the transportation sector. I appreciate the manuscript's innovative approach and its potential to contribute to sustainable fleet management practices.	
Is the title of the article suitable? (If not please suggest an alternative title)	The current title is quite descriptive but could be made more concise and appealing. Here's a suggestion that might improve its clarity and impact:	
	"Smart Fuel Monitoring for Agricultural Fleet Operations Using Tilt Sensors and Cloud Data Processing" This title	
	captures the essence of the research while being more straightforward and highlighting the key technologies involved. If not agree, keep it as usual.	
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.	The abstract is generally clear and provides a comprehensive overview of the system. However, it can be slightly refined to emphasize key aspects and improve flow. Below are my suggestions: Suggested Changes: 1. Why this system is important from a broader perspective? For instance, by highlighting the inefficiency in current systems or how this system stands out from existing solutions. 2. It might be helpful to briefly explain how the tilt sensor technology works or why it's more efficient than traditional methods.	
Are subsections and structure of the manuscript appropriate?	Yes, the subsections and structure of the manuscript seem good for a research paper. But need some correction in different section: 1. There is no mention of Figure 1 in the manuscript. 2. It is recommended to use the simple past or past perfect tense in various subsections of the App generation section. 3. The use of words such as 'your' or 'you' in the App generation section should be avoided. 4. Instead of using the term 'Note' in the App generation section, consider approaching it in a different manner. 5. Include a concise block diagram and a flowchart illustrating the proposed system in the System Architecture section. 6. In the Discussion section, analyze Figure 4 and compare your results with existing technologies. It may be more appropriate to present Figure 4 in a tabular format. 7. Since the Google Maps interface is mentioned in the manuscript, a real-time image of the interface can be provided to	
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.	This manuscript demonstrates scientific correctness and technical soundness through its comprehensive integration of IoT-based technologies for fuel monitoring and fleet management. The use of accelerometers, GPS modules, and Arduino microcontrollers ensures accurate and real-time data collection on fuel levels and vehicle locations. The methodology is well-detailed, explaining the hardware and software components, their interactions, and the data processing workflow. Additionally, the inclusion of a mobile application for data visualization and the use of cloud computing for data storage and analysis further validate the system's robustness and practical applicability.	
Are the references sufficient and recent? If you have	The references in the current document are relevant and cover various aspects of IoT-based fuel monitoring systems.	
suggestions of additional references, please mention them in the review form.	However, please add some latest references from standard publications. Also cite your references inside the manuscript for better clarification.	

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Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	The language quality of the article appears to be suitable for scholarly communications.	
Optional/General comments	 The writing style throughout the manuscript should maintain a formal tone. Specify the type of tilt sensor or tilt sensor module used in the system. If applicable, describe any future perspectives of the proposed work in the Conclusion section. Ensure that the manuscript is thoroughly checked for consistency and accuracy. 	

PART 2:

		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)	

Reviewer Details:

Name:	Swagata Barik
Department, University & Country	University of Calcutta, India

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