

Review Form 3

Journal Name:	Journal of Advances in Mathematics and Computer Science
Manuscript Number:	Ms_JAMCS_124851
Title of the Manuscript:	A Survey of Machine Learning Techniques for Accurate Seizure Detection and Future Forecasting
Type of the Article	

Review Form 3

PART 1: Review Comments

Compulsory REVISION 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>
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.		
Is the title of the article suitable? (If not please suggest an alternative title)		
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.		
Are subsections and structure of the manuscript appropriate?		
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.		
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.		

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<p>Minor REVISION comments</p> <p>Is the language/English quality of the article suitable for scholarly communications?</p>		
<p>Optional/General comments</p>	<p>You need to provide some details regarding the diagram shown in Figure 1 and create a dedicated section for the types of seizures that exhibit distinct EEG patterns, explained further with a fig. that illustrates the differences between them.</p> <ol style="list-style-type: none"> 1- Add a reference to Fig. 2. 2- Add the source to paragraphs (3.4 – 4) and verify the other paragraphs for proper citation. 3- The title of the research represents the use of machine learning (ML) techniques; however, upon reviewing the topics, priority has been given to explaining the sections related to deep learning, while the explanation of ML has been relatively brief. 4- It would be preferable to add Figure 6 to paragraph 6, as it provides illustrative points for machine learning. 5- It would be preferable to add this paragraph to the conclusion or introduction, as it is part of the core contributions of research in this field. It highlights the role of deep learning networks, machine learning, and artificial intelligence in advancing the medical field. <p>Looking to the future, several promising directions emerge:</p> <ol style="list-style-type: none"> 1. Explainable AI techniques to improve the interpretability of complex deep learning models and build trust with clinicians. 2. Federated learning approaches to leverage data from multiple institutions while preserving patient privacy. 3. Unsupervised and self-supervised learning methods to extract insights from large unlabeled EEG datasets. 4. Closed-loop systems that combine seizure detection/forecasting with automated treatment delivery. 5. Wearable and minimally invasive EEG technologies to enable long-term ambulatory monitoring. 	

PART 2:

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

Reviewer Details:

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