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| Journal Name: | Journal of Basic and Applied Research international |
| Manuscript Number: | Ms_JOBARI_12700 |
| Title of the Manuscript: | Combining Supervised and Semi-Supervised Models to Enhance Personalized Education |
| Type of the Article | Short communication |

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> |
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| 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. | | |
| Is the title of the article suitable? (If not please suggest an alternative title) | | |

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| 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. | | |
| Is the manuscript scientifically, correct? Please write here. | | |
| 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>Is the language/English quality of the article suitable for scholarly communications?</p> | | |
| <p><u>Optional/General</u> comments</p> | <p>Here are the revisions in a more concise format:</p> <ol style="list-style-type: none"> 1. Clarify the Role of Semi-Supervised Learning Explain how semi-supervised learning (GNN) uses unlabeled data to complement supervised learning (Random Forest) and how each method contributes to the overall performance. 2. Expand on the Dataset Description Provide more details on the dataset, such as specific features used, how student performance and engagement are measured, and how issues like data imbalances or missing values are handled. 3. Include a Discussion of Limitations Address limitations like performance with noisy or incomplete data, scalability for larger datasets, and how the approach might vary across different educational institutions. 4. Clarify Hybrid Model Evaluation Include more performance metrics (e.g., precision, recall, F1-score) and a direct comparison of the hybrid model with baseline models in a table to clarify improvements. 5. Incorporate Visualizations and Charts Add charts comparing the accuracy, precision, and recall of the models (GNN + RF vs. baseline RF) to make the results more digestible. 6. Provide More Detail on GNN Architecture Explain why a two-layer GNN was chosen and discuss hyperparameter tuning, such as learning rates and layer sizes. 7. Ethical Considerations of Data Usage Discuss how student privacy is maintained, potential data biases, and the ethical implications of using | <p>Noted and corrected as per the review comment.</p> |

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| | <p>machine learning in education.</p> <p>8. Examine Potential Real-World Applications Provide examples of how this model could be implemented in real-world educational settings and its impact on teachers and students.</p> <p>9. Future Work and Improvements Expand on how real-time data can be integrated, potential applications in adaptive learning, and other techniques (e.g., deep learning) that could improve the framework.</p> <p>These revisions will add clarity and depth to the paper, offering a more comprehensive understanding of the approach and its potential.</p> | |
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PART 2:

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