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Identifying Indicators of Optimizing Learning Environments Using Artificial Intelligence in Curriculum Design

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1. Round 1

1.1. Reviewer 1

Reviewer:

The sentence, "AI literacy has become a critical component of modern education..." references multiple sources but lacks a discussion on whether AI literacy is currently a global priority in educational policies. Consider including statistics or a meta-analysis to support this assertion.

The study states that thematic analysis was conducted using NVivo software. However, it does not describe whether coding was done inductively or deductively. Consider specifying the coding process and whether intercoder reliability was assessed.

The discussion on personalized learning lacks examples of how AI has successfully implemented individualized content in real-world educational settings. Including case studies would enhance credibility.

The article states, "AI provides the flexibility to adapt curriculum on the go, based on emerging needs and feedback." However, it does not clarify what specific AI models or algorithms are most effective in curriculum adaptation. Consider elaborating on this.

The phrase, "Automated content delivery was another key finding..." is ambiguous. Does this refer to AI-generated content (e.g., adaptive textbooks, chatbots) or simply digitalized content distribution? Clarification is needed.



Response: Revised and uploaded the manuscript.

1.2. Reviewer 2

Reviewer:

The mention of "inclusive and diverse curriculum designs" would benefit from a clearer explanation of how inclusivity is operationalized in AI-driven curriculum design. Are there existing frameworks that assess AI inclusivity in education?

The ethical concerns regarding AI (e.g., bias in algorithms, privacy issues) are introduced but not expanded upon in the introduction. Consider briefly explaining how these challenges impact curriculum design specifically.

The study states that participants were recruited using a "purposeful sampling strategy," but the rationale for selecting these specific experts is unclear. Was there a predefined inclusion criterion to ensure expertise in both AI and curriculum design?

The phrase, "Data collection continued until theoretical saturation was achieved," lacks a methodological explanation of how saturation was determined. What criteria were used to confirm that no new themes were emerging?

The phrase, "AI systems need to be transparent to avoid perpetuating biases," is critical, but there is no discussion on how educators can practically address algorithmic bias. Are there existing regulatory frameworks for AI ethics in education?

The article mentions "lack of infrastructure" as a limitation but does not specify whether this refers to hardware, software, internet access, or teacher training. Providing examples would clarify the challenge.

The study draws parallels between its findings and existing literature but does not clearly distinguish between original insights and previously established research. Consider structuring this section to highlight novel contributions.

Response: Revised and uploaded the manuscript.

2. Revised

Editor's decision after revisions: Accepted. Editor in Chief's decision: Accepted.

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