

Leveraging Artificial Intelligence for Collaborative Learning: Evidences from Educational Institutes in Odisha

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Abstract: AI in the education sector is transforming the way, we educate and learn. The adaptive personalized feature of AI systems provides instant feedback with the facility for data-driven decision-making. However, there exists a large research gap with regard to AI, as well as other smart education-related parameters, pertaining to students experiencing difficulty, underperforming, and having low engagement. Despite the numerous studies on AI aided smart education, the particular need for improvement of under-performing students, their levels of participation, and the aspect of soft skills remain unaddressed. The paper fills this void and delves deeper into the probable impact of AI-assisted collaboration of students and teachers on the intellectual and personality development of poor-performing students. This study obtains data from 157 students and 18 teachers' respondents of technical and management institutes in the state of Odisha in India by using a structured questionnaire and interviews. The study highlights the possible implementation of AI and related smart education technologies in the existing sector to overcome the existing limitations and integrate the AI process in a holistic manner within the sector.

Keywords: Artificial Intelligence in Education, Underperforming students, Peer and Teacher Collaboration, Learning Analytics, Personality Development

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