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Designing Intelligent Learning Systems: AI-Driven Formative Assessment and Differentiated Learner Support

Communication Info

Authors:

Siham Guenboura ¹
Khalid El khattabi ²
Fatima Ouzennou ³

¹ ENS of Fez – Sidi Mohamed
Ben Abdellah University, Fez,
Morocco

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Abstract

The integration of artificial intelligence (AI) into digital learning environments offers promising opportunities for developing intelligent systems that support pedagogical decision-making [1]. In particular, large language models such as ChatGPT open new possibilities for partially automating formative assessment and implementing personalized remediation strategies within online learning platforms [2].

This study proposes an AI-driven approach that integrates ChatGPT as an intelligent conversational agent within an institutional learning platform to support formative assessment and learning remediation [3]. The system analyzes learners' productions, generates immediate pedagogical feedback, and suggests remedial activities tailored to identified learning difficulties [4],[5].

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