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(57) Abstract :
 The Multidimensional Student Profiling system integrates various data streams, including academic performance, engagement levels, emotional and behavioral states, cognitive load, social interactions, learning preferences, and health indicators, to create a comprehensive, real-time student profile. By continuously collecting and analyzing this data, the system enables personalized learning experiences that adapt to individual student needs, improving both engagement and academic achievement. Predictive models and AI-driven personalization mechanisms provide timely interventions and optimize learning paths, ensuring that students remain engaged and succeed academically. This holistic approach leverages advanced mathematical and machine learning techniques to monitor, predict, and enhance student outcomes, fostering a more effective and tailored educational environment.

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