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(57) Abstract :

Interactive and adaptive technology platforms are used in this idea to improve education and research. The system uses AI, ML, real-time data, and cloud-based collaborative tools to personalize, streamline, and engage teaching and research. Educational data mining (EDM) and LA in higher education can help establish a student-focused strategy and provide institutions with continuous improvement tools. Based on user progress, cognitive ability, and performance, the system adjusts learning content and research recommendations. Interactive modules like gamification, VR, AR, and real-time simulations improve comprehension and engagement. In addition, AI-driven adaptive assessment delivers quick feedback and customised evaluations to improve learning. A collaborative cloud-based workspace allows data sharing, real-time teamwork, and AI-powered data analysis for research applications. Predictive analytics, NLP, and intelligent automation improve research productivity and discovery. the use of VR and gamification in education, which could transform traditional classrooms. Educators can build interactive and motivating learning experiences with immersive VR and gamification. Scalable, secure, and cross-platform, the solution is accessible on smartphones, tablets, computers, and smart classrooms. The invention gives students, educators, and professionals an intelligent, adaptable, and future-ready learning and discovery solution by seamlessly merging education and research.

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