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Patent Search

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Abstract:

Abstract This research focuses on AI-driven personalisation together with extra-mural learning activities in the processes of learning a language, measuring language (engagement, retention, and proficiency) effects. Utilising an explanatory sequential mixed-methods design, this study involved 200 language learners (A1–C1 level) divided between a control group (traditional learning) and an experimental group (AI-personalised learning with extra-mural activities). More precisely, quantitative analysis indicated a 25% increase in proficiency compared to 10% in the control group in the experimental group. AI-assisted learning saw an 85% level of engagement. The AI-immersive learning also appeared to better support long-term retention, with much higher retention rates (82%; control: 58%). There was a highly significant linear relationship in the regression analysis ($R^2 = 0.78$) between the time an individual interacted with AI and the degree of improvement, suggesting that for every extra hour using AI, we could expect the proficiency to be improved by 3.8%. This shows the potential of AI in how it can revolutionise your language education, bringing adaptive and efficient learning! The joining of AI-infused tools, accompanied by extra-mural activities, is a scalable and data-driven premise for optimising language acquisition.

Complete Specification

Description: AI and Personalized Language Classroom Practical Applications, Theoretical Insights

Field and Background of the Invention

Education is now going through a transformation where AI is being used to give the personalized learning experience to each of the learners. In language education based approaches are stimulating interest and retention via personalized learning pathways, instant feedback, and immersive contexts. Unlike traditional language that adopt a one-size-fits-all model, AI-powered programs adapt to the pace, strengths, and challenges of each learner individually, providing precise interventions needed. The growing demand for multilingualism in globalised economies has made individualized language training more important. Individual differences in language acquisition depend on cognitive skills, learning style, and experience. These factors shape the ability of AI to evaluate student performance and adapt the course of instruction guarantees more efficient language development. AI-driven analytics also give teachers practical information that helps them to better support different students and modify their teaching plans. Outside the classroom, extra-mural learning activities are crucial, since it is well recognized that they reinforce language acquisition. These exercises supply near-constant rehearsal; they connect the hole between formal studying and actual-life talking. Through the use of AI-powered platforms, including tools for conversational practice, pronunciation assessment, and gamified language learning environments, learners can engage in natural language use outside of the formality of a structured lesson. The combination of AI-driven personalization and extra-mural learning provides an optimal learning environment. Educators can create an all-encompassing approach to maximum engagement and accelerated mastery.

Even though we are starting to improve how we teach languages today, some traditional teaching models still are not capable of addressing all kinds of different ne

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