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(57) Abstract :

Abstract The present invention provides an advanced AI-driven system and method for enhancing English language learning specifically tailored to the linguistic, cultural, and educational needs of Indian students. Utilizing a combination of Natural Language Processing, Machine Learning, speech recognition, and adaptive learning algorithms, the invention delivers a personalized, interactive, and context-aware learning experience. It addresses key challenges faced by Indian learners, including regional accent variations, mother-tongue interference, limited exposure to spoken English, and disparities in access to high-quality educational resources. The system evaluates both spoken and written input, identifying errors in pronunciation, grammar, vocabulary, and sentence structure. Through AI-based speech analysis optimized for diverse Indian accents, it provides real-time corrective feedback that helps learners improve fluency and clarity. Adaptive learning mechanisms dynamically adjust lesson difficulty and content based on individual performance, ensuring a targeted and efficient learning pathway. Additionally, conversational AI modules simulate real-life communication scenarios, enabling students to practice dialogues and enhance confidence in spoken English. The invention integrates automated assessment tools that analyze listening, reading, writing, and speaking proficiency, generating detailed performance reports for learners and educators. These insights support personalized improvement strategies and informed teaching decisions. By combining AI-powered language analysis, personalized instruction, contextualized content, and emotional responsiveness, the invention offers a comprehensive solution for modern English learning. It empowers Indian students with effective tools to overcome linguistic barriers, promotes continuous skill development, and enhances communication proficiency essential for academic, professional, and social success.

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