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(57) Abstract :

ABSTRACT AI BASED ASSISTANT SMART ENGLISH LANGUAGE TRANSLATION AND GRAMMAR LEARNING SYSTEM The increasing globalization of education, communication, and digital interaction has created a strong demand for intelligent systems that support effective language translation and grammar learning. English, being one of the most widely used international languages, plays a central role in academic, professional, and social communication. However, many learners face difficulties in understanding sentence construction, grammar rules, vocabulary usage, and contextual meaning when translating between their native language and English. Traditional language learning methods often rely on static textbooks, manual correction, and one-way instruction, which may not provide immediate feedback or adaptive support for individual learners. This study proposes an AI-Based Assistant Smart English Language Translation and Grammar Learning System designed to combine intelligent translation, grammar correction, contextual language understanding, and interactive learning support in a single integrated platform. The system uses artificial intelligence techniques such as natural language processing, machine learning, context-aware translation models, speech recognition, and grammar evaluation algorithms to assist users in learning English more effectively. It can translate text and speech, detect grammatical errors, explain corrections, suggest improved sentence structures, and provide personalized grammar learning activities. The proposed system improves language accuracy, supports bilingual learning, reduces learner confusion, and increases confidence in communication. By integrating translation assistance with grammar education, the system bridges the gap between language understanding and language application. The study highlights the potential of AI to transform English learning into an interactive, adaptive, and learner-centered experience suitable for students, teachers, professionals, and multilingual users.

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