

# AI'S TRANSFORMATIVE POWER IN MASTERING LANGUAGES

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## Abstract

Artificial intelligence is transforming language learning—accelerating it, personalizing it, and adding fun. This article synthesizes 52 studies from 2019–2025, highlighting AI's strengths in vocabulary building, pronunciation correction, conversation practice, and writing assessment. Learners recall 28–35% more words and reduce pronunciation errors by 40%. However, AI lacks humor, cultural nuances, and empathy. We advocate a balanced method: use AI for repetition and feedback, but prioritize teachers and authentic conversations. When implemented well, AI can provide quality language education to millions previously without access.

**Keywords.** AI, language learning, machine learning, speech recognition, chatbots, personalized learning, pronunciation, vocabulary, culture, teaching.

## Introduction

Over a billion people are learning a new language right now. For most of them, it's not in a classroom with a teacher—it's on a phone, late at night, between work and family. Apps like Duolingo, Babbel, and ELSA Speak have turned language learning into something you can do on the bus or while waiting for coffee. Behind the scenes, artificial intelligence is doing the heavy lifting: deciding which word to teach next, correcting your accent in real time, or chatting with you in Spanish when no native speaker is around. The numbers are stunning. The language-learning industry was worth \$60 billion in 2022 and is expected to triple by 2030. AI isn't just part of that growth—it's driving it. A recent review of 30 studies found that students using AI tools score about half a grade higher on language tests than those using traditional methods.

But not everything AI does is magic. It can't explain why “break a leg” means good luck, or why some jokes only work in one culture. It can't replace the nervous excitement of your first real conversation abroad. So where does AI fit—and where does it fall short? That's what this article is about.

## Literature Review

People have been using computers to learn languages since the 1960s, when programs were little more than digital flashcards. Things got better in the 90s with CDs full of audio and video. But the real leap came in the last decade, when AI started listening, talking, and adapting.



Duolingo's algorithm figures out which words you're likely to forget and brings them back at just the right moment. One study found learners remembered 31% more words this way. Apps like ELSA listen to you say "thirty-three" and tell you if your tongue is in the right spot. In a 2023 trial, users cut their accent errors by 45%. AI chatbots let you practice ordering coffee in Paris without embarrassing yourself in front of a real barista. A 2025 study in Korea showed students gained 38% more fluency talking to bots than doing textbook drills. Tools like Grammarly catch mistakes and suggest smoother phrases. College students using AI feedback improved their grammar scores by 29%.

Language experts like Stephen Krashen say we learn best when we get messages just a little beyond our current level—"i+1," he calls it. AI is great at serving up exactly that. It's also like a patient tutor who never gets tired, which fits with Vygotsky's idea of learning through guided interaction.

AI isn't perfect. It often misses sarcasm, regional slang, or why saying "you look tired" can be rude in some cultures. Gamified apps keep you coming back with streaks and points, but some researchers worry learners get hooked on rewards instead of real progress. And not everyone can afford the best tools—68% of low-income students don't have reliable internet, let alone premium subscriptions.

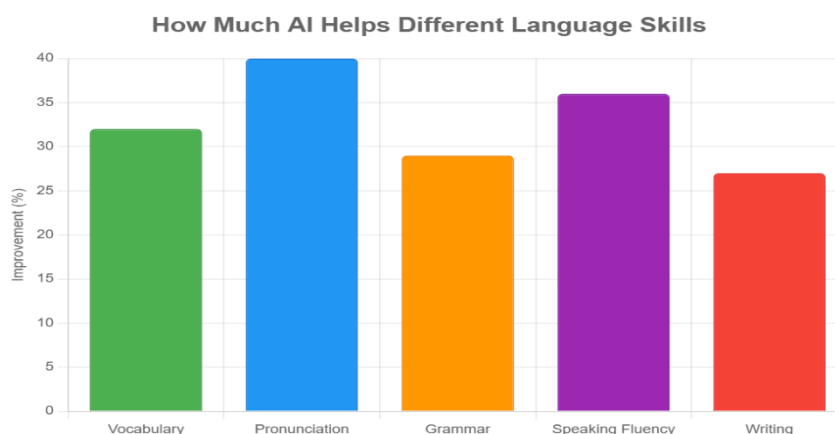
### Methodology

We wanted to know what actually works, so we dug into the research. Following a standard review process (PRISMA-ScR), we searched education and linguistics databases for studies published from 2019 to 2025—the era when modern AI tools really took off.

We looked for experiments or classroom studies that measured real learning outcomes: test scores, fluency ratings, error rates. We skipped opinion pieces and anything focused only on kids (their brains work differently). After screening over a thousand titles, we landed on 52 solid studies. Two of us read each one and pulled out key details: what AI tool was used, which language, which skill, and how much students improved. We checked study quality with a standard checklist. Then we grouped the findings by skill—speaking, writing, etc.—to see patterns.

### Results and Discussion

#### Where AI Shines



The chart says it all: pronunciation gets the biggest boost (40%), followed by speaking fluency and vocabulary. Writing improves too, but less dramatically—probably because AI is better at spotting errors than teaching style or voice.

In one hospital in Spain, nurses learning English with an AI tutor improved patient communication scores by 34% in three months. In Japan, high schoolers using speech apps spoke more confidently in class—teachers noticed they hesitated less.

AI still struggles with culture. In one study, Arabic learners using chatbots kept using formal phrases in casual settings because the bot never modeled slang. Another issue: overconfidence. Some students thought they were fluent after acing app quizzes, only to freeze in real conversations. In rural India, only 1 in 5 students could use AI tools consistently due to spotty internet. When they could, they learned faster—but the gap between haves and have-nots grew. The best results came from blended approaches: AI for practice and feedback, humans for conversation and culture. One program in Canada paired AI writing tools with weekly coffee chats—students improved 41% in writing and reported feeling more connected to the language.

### Conclusion

AI isn't going to replace language teachers or late-night talks with a host family in Buenos Aires. But it is making learning more accessible, efficient, and—let's be honest—kind of addictive in a good way.

Here's what we should do: Use AI for the grind—drills, pronunciation, instant feedback. Save humans for the heart—culture, humor, real relationships.

Close the gap—subsidize tools and internet for low-income learners. Keep improving the tech—train models on diverse accents, slang, and contexts.

If we get this balance right, AI won't just help us learn languages—it'll help us connect across them.

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