Olloh bergan sinovlar bisyor,

Ona - faqat kurashmoq kerak.

O'g'lim yo'q deb o'kinmang ona,

O'g'li yo'qlar dunyoda qancha .

Onajonim shukrona ayting ,

Befarzandlar dunyoda ancha .

To'rt qizingiz to'rt yoninggizda ,

To'rt o'g'londay xizmat qilamiz.

Nasib qilsa farishta onam,

Sizni .... Xoji ona qilamiz .

The role of artificial intelligence in language learning: case study of Duolingo

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Ilmiy rahbar: Xorijiy tillar:ingliz tili yo'nalishi kafedrasi mudiri

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 Abstract. Within the development of language-learning technologies, Artificial intelligence (AI) has become crucial tool in language education. This article explores the role of artificial intelligence in modern language learning, focusing the case study of Duolingo, one of the most popular Al-driven language-learning platforms. It highlights how Al enhances learning experiences through personalized lesson plans, adaptive exercises and instant feedback. Overall, article concluded that while duolingo showcases Al's transformative potential in language education, human interaction remains crucial for achieving complete fluency.

Key words: Duolingo, artificial intelligence, educators, foreign languages, research, technology, experiment, learners, communication, methods, grammar, listening skills, personalized learning experiences.

In recent years, artificial intelligence (AI) has been recognized for its effectiveness in various fields, particularly in language learning. Platforms like Duolingo offer language learners the opportunity to use AI, making the process of learning foreign languages easier and more efficient. Duolingo is one of the world's leading platforms, using advanced AI technology to enhance language acquisition. The platform is simple to use and offers both a mobile app and a language certification program.

Why shoud you try duolingo?

Unlike traditional language learning methods, Duolingo provides modern, interactive, and effective lessons. The AI assesses the learner's proficiency level and tailors lessons according to their individual needs. For example, beginners are introduced to simple sentences and vocabulary, while more advanced learners are challenged with complex grammar rules and phrases. Additionally, Duolingo's AI analyzes users' mistakes and suggests exercises to address their weaknesses. The platform goes beyond basic drills and tedious rules by incorporating gamification, which increases learners' motivation and engagement. These game-like elements make the learning process more enjoyable and rewarding. Users can complete daily tasks and earn coins or points, which further encourages them to continue studying and improving.[1]

History of Duolingo

The idea for Duolingo was first launched in 2011 by Luis von Ahn, a professor at Carnegie Mellon University, and his graduate student Severin Hacker. Today, Duolingo offers nearly 100 free courses in over 40 languages. When asked why they created this free platform, Luis von Ahn explained: "We wanted to have the best quality of language education and offer it for free. That's why it is a more effective platform than other apps." [2]

Recent studies of Duolingo

The effectiveness of Duolingo in language learning has been demonstrated in several studies. For example, Kassie Freeman, A. Kettredge, Elisa Hopman, and Xiangying Jiang conducted an experiment to evaluate how well Duolingo works. They surveyed language educators in North America, asking them how Duolingo compared to other platforms in terms of helping students learn languages. The results showed that Duolingo outperformed other platforms in all categories. For example, 96% of educators stated that Duolingo helps students learn a language

faster, and in another survey, 78% of educators noted that Duolingo is particularly helpful for real-life communication.[3]

In another study, Rachels and Rockinson-Szapkiw (2018) compared online language learning tools with traditional classroom instruction. They used a pretest-posttest design to compare face-to-face Spanish lessons with Duolingo's Spanish course for English speakers in elementary schools. The study involved 164 students from 11 third- and fourth-grade classes. Six of these classes used Duolingo to learn Spanish, while the other five attended traditional face-to-face classes. Both groups studied Spanish for 40 minutes a week over the course of 12 weeks. The students were assessed on Spanish vocabulary and grammar through multiple-choice tests. The researchers found no significant difference between the two groups and concluded that Duolingo is an effective tool for teaching Spanish to elementary students.[4]

Looking at more recent studies, a 2022 research article published in *Foreign Language Annals* examined the effectiveness of Duolingo for adult learners. The study found that participants who completed Duolingo's course showed reading and listening skills comparable to students who had completed four semesters of formal language study.[5]

These findings confirm that Duolingo is one of the best AI-powered language learning platforms in the world. In addition to its primary language courses, Duolingo also offers the "Duolingo English Test" for online language assessment and "Duolingo ABC," a literacy app designed for children. These platforms also utilize AI and have gained significant user bases.[6]

Duolingo is really user-friendly and it has steps to use duolingo:

1. Download the Duolingo app on your smartphone from the App Store or Google Play Store, or head to duolingo.com and pick a language to start your learning journey.

2. Scroll up bottom and select "more" to see some courses and pick a language

3. The you'll be asked some questions about your motivation and goals

4. Then you must choose a path.

Then you can start learn any language every day. [7]

Like any AI technology, Duolingo has its advantages and limitations for students. On the positive side, if you find traditional language learning methods—such as repetitive grammar drills and vocabulary memorization—boring, Duolingo makes language learning much more engaging. You can learn a language anytime and anywhere simply by opening the app. Each lesson only requires about 10

seconds of your time, and Duolingo helps you reinforce vocabulary by presenting words in different contexts, allowing you to learn while on the go—whether you're walking down the street or sitting in a car. Furthermore,, while learning a language with the help of Duolingo, it helps you to test yourself in a daily basis.

However, Duolingo does have its drawbacks. If you are serious about becoming fluent and having real conversations in the language, Duolingo cannot provide true conversational practice. Additionally, it doesn't offer in-depth grammar instruction, which could limit those who wish to master advanced language skills.[8]

Despite these limitations, Duolingo—powered by AI—offers highly personalized learning experiences. Through tailored lessons, interactive game elements, and pronunciation practice, AI makes language learning both modern and effective. Learning through such platforms is easy, fun, and highly effective, providing great opportunities for learners everywhere.

Conclusion

I recommend duolingo as a supplementary tool for language-learning due to its accessibility, user-friendly design and maintain motivation through gamified features. However, if you want to aim for advanced fluency or deeper understanding, combining duolingo with other resourses, like language classes and speaking practice with natives, is also essential.

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INGLIZ TILIDA LEKSIK BOYLIKNI RIVOJLANTIRISHDA ZAMONAVIY TEXNOLOGIYALARNING ROLI

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Annotatsiya. Ushbu maqola ingliz tilida leksik boylikni rivojlantirishda zamonaviy texnologiyalarning roli va ularning ta'lim jarayoniga ta'sirini tahlil qiladi. Mobil ilovalar, onlayn platformalar va interfaol resurslar yordamida talabalar yangi so'zlarni o'rganish va ularni turli kontekstlarda qo'llash imkoniyatlariga ega bo'ladilar. Texnologiyalar, ayniqsa, leksik boylikni oshirishda samarali bo'lib, o'quvchilarga individual o'rganish usullarini tanlash va bilimlarini yanada mustahkamlash imkonini beradi. Maqolada texnologiyalarning afzalliklari va kamchiliklari, ularni ehtiyotkorlik bilan qo'llash zarurligi hamda o'qituvchilar uchun samarali integratsiya qilish usullari ko'rib chiqiladi.

Kalit so'zlar: Ingliz tili, leksik boylik, zamonaviy texnologiyalar, mobil ilovalar, onlayn platformalar, interfaol resurslar, o'rganish, ta'lim jarayoni, o'quvchilar, texnologiyalarni integratsiya qilish.

Ingliz tilini o'rganish jarayoni o'quvchilarning bilim olish, tilga bo'lgan qiziqish va o'z maqsadlariga erishishdagi izlanishlariga asoslanadi. Bugungi kunda ingliz tilini o'rganish an'anaviy usullardan tashqari zamonaviy texnologiyalardan ham foydalangan holda yanada samarali amalga oshirilmoqda. Zamonaviy texnologiyalar — mobil ilovalar, onlayn platformalar, interfaol resurslar va raqamli vositalar —