



XORIJY TILLARNI O'QITISHDA INNOVATSION YONDASHUVLAR NAZARIYANING AMALIYOTGA TATBIQI

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THE EFFECTIVENESS OF AI-BASED FEEDBACK IN WRITING ASSIGNMENTS

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Annotation: Artificial Intelligence (AI) has been developed worldwide because of its usage in different important fields, including education. This study explores the effectiveness of AI-based feedback in writing assignments, highlighting its advantages and limitations. AI tools provide instant, consistent, and detailed feedback helping students improve grammar, structure, and coherence. They also reduce teachers' workload, making large-scale assessments more efficient. However, AI lacks emotional intelligence, personalized feedback, and the ability to assess creativity and nuanced argumentation. While AI serves as a valuable supplement to traditional feedback, it cannot fully replace human instructors. The study emphasizes the need for a balanced approach, integrating AI with teacher guidance for optimal learning outcomes.

Keywords: Artificial Intelligence (AI), education, AI-based feedback, writing assessment, EFL writing, peer assessment, artificial intelligence in education, automated feedback, grammar correction, writing improvement, student learning, teacher workload, educational technology, personalized feedback, human vs AI evaluation, multilingual support, adaptive feedback, over-reliance on AI, creativity in writing.

In English as a foreign language (EFL) writing classrooms, large class sizes pose a significant challenge for teachers, making it impractical to provide timely and personalized feedback to every student. Peer assessment is presented as a valuable solution, allowing students to evaluate and provide feedback on each other's work, acting as a substitute for teacher feedback. Technological advancements in Artificial Intelligence (AI) have opened new opportunities for students to improve their studies, particularly in receiving accurate feedback on their written and spoken work. I see many teachers and students in many universities worldwide using AI to get feedback especially, for their essays, as writing always requires feedback for improvement. Due to the increasing number of students in a class, teachers do not have enough time to check everyone's essays simultaneously. In this case, AI tools, such as ChatGPT, offer an effective way for students to receive assessments and improve their writing skills. However, AI-based feedback also has limitations. One key drawback is the lack of emotional intelligence – unlike human teachers, AI cannot express



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encouragement or critique with empathy. Plus, effective feedback also plays a crucial role in a child's development, while misaligned and insufficient feedback affects the growth and motivation to study.

There are some apps that you can use to have your essays checked as soon as possible even though you do not have a teacher to ask help from.

Grammarly: This app helps to write confidently, clearly, with comprehension and mistake-free. Moreover, it is useful for you to learn and develop new vocabulary, gain new knowledge, learn the right word spelling, and overall, learn how to write correctly. In this app, you are also given advice, structure and more beneficial information about what you are writing.



Paraphraser: This source can paraphrase and strengthen your ideas with a well-organized approach. For example, if you are writing an essay and you take ideas from others' works. In this case, you have an opportunity to use paraphrasing to change the structure and the words, yet keeping the same meaning.



PARAPHRASER

LanguageTool: This app demonstrates great growth, 19 out of 20 among its users, and gives users a great opportunity to check word choice errors, spelling and even punctuation mistakes. I find this site very user-friendly because it does not require sign-up. All you need to do is to click to correct. However, language tools cannot have access to find and correct all mistakes at once.



There are both potential benefits and notable challenges associated with using AI to evaluate writing assessments. Here is a breakdown of pros of AI usage:



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1. Consistency. Unlike humans, AI can check writings with all needed marking criteria and give feedback at the same time. This gives students an opportunity to not be confused as a student gets feedback from one source, not from many graders with different feedback ideas. AI-based assessment systems can also assess thousands of essays in a very short time, which is helpful for both students and teachers. Students know about mistakes, what should be corrected and get suggestions in depth, and teachers' workload can be reduced making opportunity to them to focus on other important things where needed.

2. Speed. AI can assess huge amounts of information at a very fast speed, making it efficient for large-scale evaluations. If a learner uses AI platforms to have his/her essays assessed, he/she does not have to wait for a long time as AI provides what you need very quickly even if your teacher may not have time to check your work and may not provide everything that should be considered. So, AI is the best option in this situation, as it is always available to provide assistance anytime, anywhere you want.

3. Adaptive feedback. Hopefully, all AI platforms can give instant feedback and show learners' mistakes to make them understandable and comfortable to correct the mistakes in real time as soon as possible.

4. Enhanced writing quality. AI tools provide advice on writing professional-quality essays by correcting grammar, punctuation, and word choice while also helping to develop writing style.

5. Multilingual support for non-native speakers. AI tools can assist in writing feedback in different languages to non-natives. For example, an Uzbek student writes an essay in English and makes some mistakes. In this way, AI helps him/her to show the language-specific errors and suggestions for improvement. If a learner writes an essay in English and asks for feedback in his/her own native language, AI is also ready to teach.

Here are the cons:

1. Over-reliance on ideas. More reliance on AI might affect human creativity and motivation to study which is really bad to learn more. AI feedback also lowers the understanding and the quality of human touch. And AI systems lack to add emotions to the context of writing. Emotional intelligence helps to realize and describe how people feel.

2. Overfocus on grammar. Most times, AI platforms focus too much on grammar, sentence structure, spelling and choice of words. However, the meaning



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and quality of sentences, and strengthening of ideas are less important for AI which reduces the quality of your ideas.

3. Lack of personalized feedback. Unlike human teachers, AI provides automated feedback that may not address student needs, because AI does not have feelings that's why it also cannot feel what learners need, and how their situation is. So, in this case, human checkers are better.

4. Reduction in human judgment and educational growth. Over-reliance and over usage of AI to assess writing may reduce the role of teachers to evaluate works. In addition, students lose doing self-study. AI lacks the human ability to mentor, inspire and understand students' individual learning journeys. So, this is also the negative side of AI writing assessments.

In conclusion, while AI tools can provide valuable and efficient feedback, they have limitations such as a lack of emotional intelligence and an overemphasis on grammar rather than content quality. Although AI cannot fully replace human teachers, it remains a useful tool for learning, fostering creativity, and improving writing skills.

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