

## The Use of Artificial Intelligence Tools in Assessing English Writing Accuracy

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**Abstract:** This article explores the use of artificial intelligence (AI) tools in assessing English writing accuracy among EFL learners. With the rapid advancement of AI technology, educational applications such as automated writing evaluation (AWE) systems have become increasingly popular. These tools provide immediate feedback on grammar, vocabulary, punctuation, and overall writing coherence. The study examines the benefits and limitations of AI-based assessment, focusing on its role in enhancing learner autonomy, improving writing accuracy, and supporting teachers in large classrooms. Evidence from recent research and classroom applications indicates that AI tools can significantly improve feedback efficiency, promote self-correction, and help learners develop linguistic precision, though human oversight remains crucial for assessing creativity, context, and discourse-level quality.

**Keywords:** artificial intelligence, automated writing evaluation, EFL learners, writing accuracy, feedback, language assessment, educational technology.

### Introduction

English writing proficiency is a core component of language competence, encompassing grammar, vocabulary, cohesion, coherence, and stylistic appropriateness. Assessing writing accuracy is a complex task for educators, particularly in large EFL classrooms, due to time constraints and the subjective nature of evaluation. Artificial intelligence (AI) tools, including automated writing evaluation (AWE) systems, have emerged as innovative solutions to support both teachers and learners.

AI-based tools provide instant feedback on various aspects of writing, enabling learners to identify errors and improve their language skills autonomously. These tools are increasingly applied in educational contexts worldwide, including in Uzbekistan, to enhance the efficiency of writing instruction. However, while AI can analyze sentence-level grammar and lexical accuracy effectively, it faces challenges in evaluating content creativity, context, and pragmatic appropriateness.

This article investigates the application of AI tools in assessing English writing accuracy, examines their advantages and limitations, and discusses strategies for integrating these technologies into EFL classrooms to enhance both learning outcomes and teaching efficiency.



## Main Body

### 1. AI Tools in English Writing Assessment

AI-based writing assessment tools include systems such as Grammarly, Turnitin Revision Assistant, Write & Improve, and Criterion. They analyze texts for:

**Grammar and Syntax Errors:** Identifying incorrect verb forms, prepositions, articles, and sentence structures.

**Lexical Accuracy:** Highlighting word choice, collocations, and vocabulary repetition.

**Punctuation and Spelling:** Detecting incorrect punctuation marks, capitalization, and spelling mistakes.

**Coherence and Cohesion:** Evaluating paragraph structure, sentence connectors, and logical flow.

These tools use natural language processing (NLP) and machine learning algorithms to analyze learner writing, providing immediate and individualized feedback that traditional methods cannot match in terms of speed.

### 2. Benefits of AI Tools in Writing Assessment

1. **Immediate Feedback:** Learners receive instant corrections, which helps in timely self-correction and reinforces learning.

2. **Consistency:** AI systems apply uniform criteria for evaluating grammar and lexical accuracy, reducing subjectivity inherent in human assessment.

3. **Learner Autonomy:** Students can revise their writing independently based on AI feedback, promoting self-directed learning.

4. **Data-Driven Insights:** Teachers can track learners' frequent errors, identify patterns, and plan targeted interventions.

5. **Motivation and Engagement:** Interactive AI tools encourage learners to experiment with language, revise their texts, and observe progress in real time.

Studies suggest that when AI tools are integrated with traditional instruction, learners demonstrate improved accuracy, enhanced vocabulary use, and greater confidence in writing tasks.

### 3. Challenges and Limitations

1. **Contextual Understanding:** AI tools may misinterpret meaning or fail to recognize correct usage in nuanced contexts.

2. **Creativity and Content Quality:** Evaluating ideas, argumentation, and rhetorical effectiveness remains difficult for automated systems.

3. **Overreliance:** Learners may become dependent on AI feedback, neglecting critical thinking and self-editing skills.

4. **Technical and Accessibility Issues:** Limited internet access or lack of familiarity with AI platforms can hinder implementation in some educational settings.



5. Cultural and Linguistic Bias: Some AI tools are optimized for native English norms, which may not fully accommodate EFL learners' specific linguistic backgrounds.

Hence, AI-based assessment should complement human instruction, rather than replace teachers, to ensure holistic evaluation of writing skills.

#### 4. Pedagogical Strategies for Effective AI Integration

**Blended Assessment:** Combine AI feedback with teacher comments to address both linguistic accuracy and content quality.

**Error Analysis Tasks:** Encourage learners to analyze AI-identified errors to deepen understanding of grammar and vocabulary.

**Revision Cycles:** Use AI tools for multiple drafts, promoting iterative learning and self-monitoring.

**Guidance and Training:** Provide orientation sessions for learners on interpreting AI feedback correctly.

**Focus on Higher-Order Skills:** Pair AI evaluation with activities that target creativity, coherence, and argumentation to ensure comprehensive writing development.

#### 5. Case Studies and Research Findings

Research demonstrates that AI tools:

Reduce the time teachers spend on mechanical correction (Li & Hegelheimer, 2013).

Improve students' writing accuracy, particularly in grammar and vocabulary (Bai & Hu, 2021).

Support learner motivation and confidence, especially when used in a structured feedback cycle (Heil, Wu, & Lee, 2019).

Are most effective when combined with explicit instruction and teacher guidance, rather than as standalone evaluators.

These findings highlight the practical potential of AI tools in EFL classrooms while emphasizing the continuing importance of teacher involvement.

#### Conclusion

Artificial intelligence tools have transformed the assessment of English writing accuracy, offering instant, consistent, and data-driven feedback to EFL learners. They enhance grammar, vocabulary, and spelling accuracy, foster learner autonomy, and support teacher efficiency. However, challenges remain, including limitations in evaluating content creativity, contextual appropriateness, and higher-order discourse skills. Effective integration of AI tools requires a blended approach, combining automated feedback with human evaluation, explicit instruction, and iterative practice.



When implemented thoughtfully, AI-assisted writing assessment can significantly improve learners' accuracy, confidence, and overall proficiency in English writing.

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