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## Exploring AI Assessment Tools in English Language Learning and Teaching – A Qualitative Study

Reshma Evangelin K<sup>1</sup>, Dr. K. A. Maria Arokiaraj<sup>2</sup>

<sup>1</sup>Research Scholar, Department of English, Sacred Heart College (Autonomous), Tirupattur 635 601.

Affiliated to Thiruvalluvar University, Serkaddu, Vellore, Tamil Nadu, India.

Email ID: angelineva896@gmail.com

<sup>2</sup>Assistant Professor, Department of English, Sacred Heart College (Autonomous), Tirupattur 635 601.

Affiliated to Thiruvalluvar University, Serkaddu, Vellore, Tamil Nadu, India.

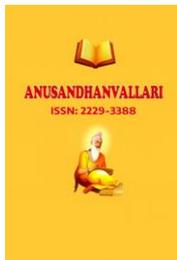
### Abstract

Artificial Intelligence (AI) technology can be found in various sectors, including education and especially in English Language Teaching (ELT). It has the promise of completely transforming education by performing management activities, lending sophisticated teaching platforms and individualizing the experiences of learning. There are several language learning applications and websites integrated with AI tools to enhance language learning. In recent days, there have also been language skills assessment AI tools available, which assess listening, speaking, reading, and writing skills. The current study aims to collect 10 AI language assessment tools and examine their features and accessibility for language learners and teachers. The study employs a qualitative method of survey technique; a survey of related studies has generated interesting insights. The study describes the usability of each AI language assessment tool with an authorized website link. Also, recommendations for the language instructors, learners and for further studies. It would be extremely beneficial for language learners and teachers to assess language proficiency levels by utilizing AI tools in ELT.

**Keywords:** Artificial Intelligence (AI), English Language Teaching (ELT), Survey of related studies, Qualitative method, Language skills and Assessment tool.

### I. Introduction

The current era is heavily influenced by Artificial Intelligence (AI), which impacts every process in the world, including language learning and teaching. The language learning process became effective with language learning applications, online language learning classes, online resources and so on. However, these did not apply to all four language skills. Speaking and reading skills needed proper evaluation and feedback. With the advent of AI technology, language learning now benefits from the ability to evaluate English speaking and writing skills through voice recognition. Even AI language assessment tools assess listening and reading skills and give effective feedback to the learners to enhance their language proficiency level. The study attempts to collect the AI language assessment tools and explore their features and accessibility, designed with VR and AR for processing natural language and advanced algorithms for addressing problems and limitations. [1]



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## II. Profits of AI Assessment in a Language Learning Process

AI language assessment tools are designed with Natural Language Processing (NLP), which enables the understanding and assessment of language data. Also, NLP can bring whole linguistic features and patterns from text and speech that make AI language learning tools process better [2]. AI tools are helpful for learners who try to learn English language individually by providing them with immediate feedback on their learning process and correcting their errors.

AI tools in the language learning process adapt learning materials based on learners' specific needs and skills[3]. AI language assessment tools provide materials in the target in the form of audio, video and text/script (prompts) for the learners to have input to answer during the assessment. In a traditional language learning classroom, language teachers do not have sufficient time to spend on individual attention and support for learners due to class strength. Implementing AI language assessment tools could save time for language trainees and learners to receive feedback from both AI and teachers.

## III. Related Studies

AI tools in English language learning enable the learners to communicate like a native speaker, indirectly they strengthen their level of proficiency in a language [4]. AI-powered language assessment tools are considered quick, accurate, cost-effective, user-friendly reliable and valid to guide language learners [5]. James Hutson stated that AI tools provide personalized reports and recommendations, and even monitor and evaluate the learning process. Additionally, it is suggested that implementing AI-powered tools in the educational field could be extremely helpful for all stakeholders involved in the educational process [6], [8].

Language teachers must aware and be focused on learners, and how to use AI-powered writing tools to improve their writing skills [7], [9]. Natalia and Alina argue that AI tools can respond like humans to text-based prompts and act as self-assessment tools for learners. Especially, Grammarly and Chap GPT help teachers to prepare assessment tools [8]. These AI-powered assessments are becoming popular due to their effective grading system and help teachers focus on feedback to scaffold their learners [9, 9]. Grammarly became post-version of Automated Writing Evaluation (AWE), and now ProWritingAid is gaining attention in real-time corrections, feedback and suggestions to write better [10].

The previous studies identified a lack of emphasis on AI language assessment tools on listening and speaking skills, particularly on reading skills assessment. They noted a scarcity of related studies on these skills in India too. This prompted the researcher to conduct the study titled "Exploring AI Assessment Tools in English Language Learning and Teaching – A Qualitative Study." Which wants to shed light on existing AI language assessment tools for each language skill.

## IV. Methodology

The current study adopted a qualitative method, it is exploratory work that seeks to gain more information on the focused area [6]. A related literature survey has been conducted to determine the effectiveness of AI-powered tools. The study collected 10 AI language assessment tools and analysed their features and accessibility. Additionally, provides an authorized website link.

## V. AI Language Assessment Tools

The following is a list of AI language assessment tools with their features and accessibility

Name of the AI Tools	Language Skills	Features and Accessibility
ProWritingAid	Writing	Available for free but need to pay for the critique option Options to Type /upload a file Shows grammar and spelling scores Gives reports on various aspects like; style of writing, sentence length and readability Realtime evaluator is available Text can be summarized/rephrased.
Language Confidence	Reading and speaking	For Reading: Provides 15 seconds for free Step 1: Gives script to read Step 2: Allows to paste the text that should be read Records the reading and assesses the record Gives the score in terms of pronunciation and average score for reading.  For Speaking Provides prompts/questions for speaking Records the speech and assess Gives scores based on pronunciation, fluency, grammar and vocabulary.
Elsa Speech analyzer	Speaking	Provides 45 minutes for free Provides daily lessons Records the speech and assess Gives scores and feedback based on grammar, intonation, fluency and vocabulary.
Grammarly	Writing	Free AI tool Does real-time assessment Corrects grammar and spelling mistakes Suggests better sentence style Regenerates the text using AI guidance.
Scribens	Writing	Free for grammar and spell check Corrects grammar and spelling mistakes Allows to copy, paste and print the text.
Read Along by Google	Reading	Free AI tool Maintains individual profiles for each user Provides the reading text with different accents including alphabet Helps to pronounce the vocabulary correctly while reading the text Provides grading points.

Mentimeter.com	Listening	<p>Enables the creation of multiple-choice, true/false, and open-ended questions based on the content of the videos</p> <p>Assesses the comprehension level</p> <p>Give the scores based on ranking, charts and points.</p>
Azure AI Studio	Reading and speaking	<p>For Reading:</p> <p>Provides 5 seconds for free</p> <p>Step 1: Gives script to read</p> <p>Step 2: Allows to paste the text that should be read</p> <p>Records the reading and assesses the record</p> <p>Gives the score based on pronunciation and average score for reading.</p> <p>For Speaking</p> <p>Provides 5 seconds for free prompts/questions for speaking</p> <p>Records the speech and assess</p> <p>Gives scores based on pronunciation, fluency, grammar and vocabulary.</p>
Quilbot	Writing	<p>Free for grammar and spell check</p> <p>Corrects grammar and spelling mistakes</p> <p>Text can be summarized/rephrased</p> <p>Allows to copy, and paste the text</p> <p>Available for plagiarism check in the paid version.</p>
Lanquill Lab (with AI language assessment tools)	Listening, Speaking and Writing	<p>Available only in the paid version</p> <p>For Listening</p> <p>Provides audio to listen</p> <p>Assesses with 5 comprehension questions</p> <p>For Speaking</p> <p>Provides text to read and speak</p> <p>Records the speech and assess</p> <p>Gives feedback in the dashboard.</p> <p>For Writing</p> <p>Allows to type/paste/speak to submit the writings</p> <p>Gives feedback in the dashboard.</p>

**Table 1.** shows the names, features and accessibilities of AI language assessment tools.

## VI. Web-Links of AI Language Assessment Tools

ProWritingAid	<a href="https://app.prowritingaid.com/">https://app.prowritingaid.com/</a>
Scribens	<a href="https://www.scribens.com/">https://www.scribens.com/</a>
Grammarly	<a href="https://www.grammarly.com/">https://www.grammarly.com/</a>
Quillbot	<a href="https://quillbot.com/">https://quillbot.com/</a>
Elsa Speech analyzer	<a href="https://speechanalyzer.elsaspeak.com/">https://speechanalyzer.elsaspeak.com/</a>
Read Along by Google	<a href="https://readalong.google.com/">https://readalong.google.com/</a>
Mentimeter.com	<a href="https://www.mentimeter.com/">https://www.mentimeter.com/</a>
Language Confidence	<a href="https://languageconfidence.ai/">https://languageconfidence.ai/</a>
Azure AI Studio	<a href="https://ai.azure.com/">https://ai.azure.com/</a>
Lanquill Lab	<a href="https://lanquill.com/">https://lanquill.com/</a>

**Table 2.** Shows the website links of the AI language assessment tools.

## VII. Recommendations for the Language Instructors

English language teachers/instructors should be trained to access AI-powered tools for learning, teaching and assessing. Instructors must keep up-to-date with the latest trends in teaching and learning English. Although AI tools offer immediate feedback on learners' performance, teachers still need to monitor progress and provide feedback.

## VIII. Recommendations for the Language Learners

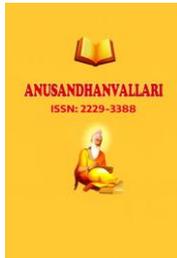
Learning a language is easier with AI-powered tools. Learner cloud becomes individualized learners through AI language assessment tools. Individuals should dedicate time to practicing the English language using AI assessment tools. These tools can help them assess their proficiency level, allowing them to use the feedback to improve their language skills. It's important to make note of any errors and work on reducing them with the help of AI suggestions.

## IX. Recommendations for Further Studies

1. Explore cross-cultural AI language learning tools
2. Analysis could be done more on speaking and listening AI assessment tools
3. Implementation could be done in language classrooms by speaking AI assessment tools
4. A concept study could be conducted to determine the relevance of the AI language assessment tools among language learners.

## X. Conclusion

The study focused on shedding light on the existing AI language assessment tools and providing their feature, accessibilities and effectiveness in English language learning and teaching. The previous research



suggested and tested several AI tools abroad to determine the crucial and effective aspects of AI tools in English language learning. Thus, the study explored the existing AI assessment tools and achieved in analyzing their features and accessibilities.

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