



**“USING ARTIFICIAL INTELLIGENCE (AI) TO ENHANCE THE
TEACHING AND LEARNING ACTIVITIES IN LANGUAGE
CLASSES.”**

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A blurred background image showing graduates in blue caps and gowns during a ceremony.

Prolegomena

- The booming of Artificial Intelligence in the technological domain,
- AI known as “automation based on association” (Miguel A et al 2023: 1), has given room to a more and more growing exploration and exploitation of AI in the domain of Education

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PROLEGOMENA

- What are really the benefits of AI in Education and most especially in Language Teaching and Learning?
- If “AI has begun producing new teaching and learning solutions that are now undergoing testing in different context” (UNESCO 2019:6), what are really the benefits of such solutions in the Teaching and learning of Languages?
- what are the challenges and risks attached to the use of AI in the teaching and learning of languages, especially in a Cameroonian context?

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AI AND THE TEACHING OF READING COMPREHENSION

- **AI-based systems can analyse a student's reading level, comprehension skills, and areas of difficulty. They can then dynamically generate personalised reading exercises and comprehension tests tailored to the student's needs.**
- **AI models can be trained to automatically summarise written passages in multiple languages, helping students quickly grasp the key points and overall meaning.**

A blurred background image showing the tops of blue graduation caps and the heads of students at a ceremony.

AI AND THE TEACHING OF READING COMPREHENSION

- **AI tutors can provide individualised feedback, explanations, and guidance to students as they work through reading comprehension exercises. They can identify areas of confusion and offer targeted support.**
- **Conversational AI agents can engage students in natural language discussions about reading passages, asking questions, providing explanations, and helping them practice their comprehension skills.**

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- AI can integrate text, audio, visual, and interactive elements to create immersive reading experiences that cater to different learning styles and preferences.

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AI AND THE TEACHING OF LISTENING COMPREHENSION

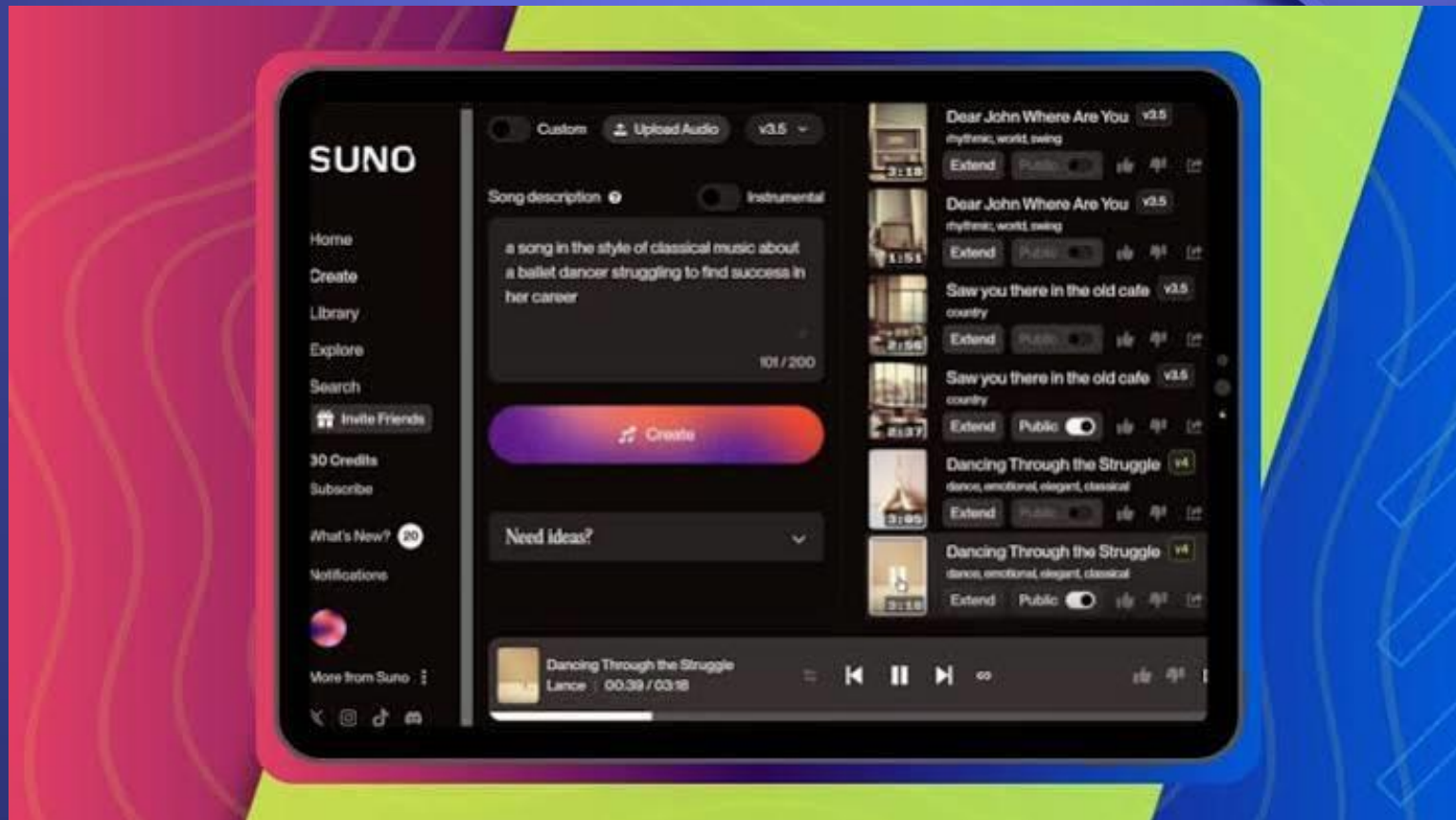
AI-powered systems can adjust the speed, complexity, and level of listening passages based on a student's proficiency through specific adaptive listening exercises:

AI models can provide real-time feedback on pronunciation, intonation, and comprehension during listening activities thanks to Intelligent Speech Recognition.

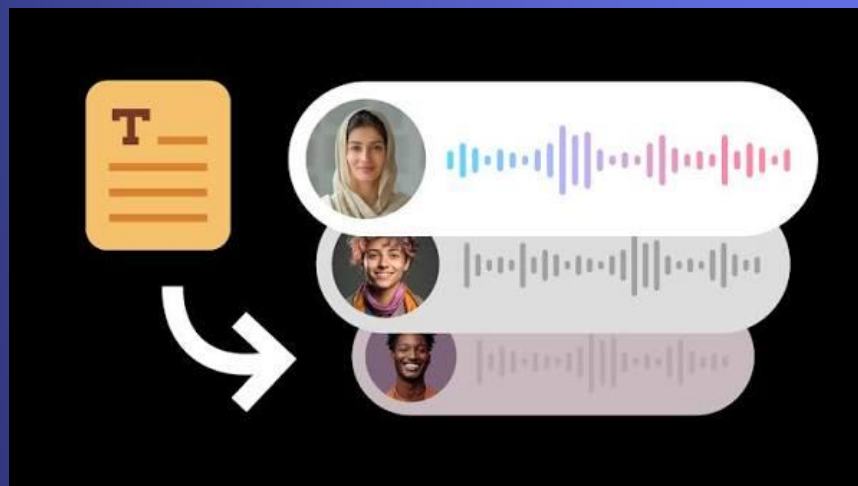
AI can generate accurate subtitles and transcripts for audio and video content in various languages, aiding comprehension. With the help of Multilingual Subtitling and Transcription.

AI can curate a collection of listening materials tailored to each student's interests and skill level through Personalised Listening Playlists.

USING AI TO CONVERT TEXT INTO MUSIC TO BE USED FOR LISTENING COMPREHENSION: SUNO AS MUSIC GENERATOR FOR LISTENING COMPREHENSION



USING AI TOOLS TO CONVERT TEXT INTO MUSIC TO BE USED FOR LISTENING COMPREHENSION

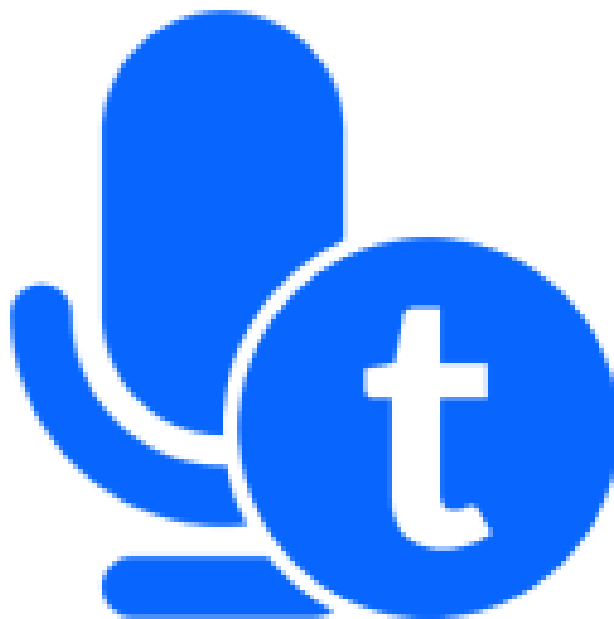


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AI AND THE TEACHING OF SPEAKING

- **Thanks to conversational AI Chatbots:** learners can be engaged in natural language dialogues, providing feedback on pronunciation, grammar, and fluency.
- **With the help of Automated Speech Evaluation,** AI models can be used in analysing learners' speech, identifying areas for improvement, and providing targeted feedback.
- **Through Speech Generation and Imitation,** AI systems can generate model pronunciations and sentences for learners to listen to and imitate, improving their speaking skills.
- **AI can help learners' practices and refine their speaking skills for formal presentations and interviews.**

USING AI TOLS TO CONVERT SPEECHES INTO TEXTS AND PRACTICE SPEECH WORK AND SPEAKING



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AI AND THE TEACHING OF WRITING

- **With the help of automated grammar and style feedback, AI can analyse learners' writing and provide feedback on grammar, syntax, and style, helping to improve their written communication skills.**
- **Through intelligent feedback and suggestions, AI-powered writing assistants can offer context-sensitive feedback, word suggestions, and sentence structure improvements.**
- **There are also collaborative writing tools powered by AI that can be made use of to enable real-time collaboration and peer-feedback among students, enhancing the writing process.**

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AI AND LANGUAGE TEACHING AND LEARNING: THE CHALLENGES AND LIMITATIONS

- **Accuracy and Reliability of AI-Generated Feedback:**
- **Lack of Human Interaction and Contextualisation**
- **Adaptability to Individual Learner Needs (plurality of students' learning profiles, very large size classrooms)**
- **Integration with Existing Curricula and Pedagogical Approaches:**

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AI AND LANGUAGE TEACHING AND LEARNING: THE CHALLENGES AND LIMITATIONS

- **Technological Limitations and Infrastructure Challenges** (Lack of adequate Tools, Equipment and infrastructures, poor internet quality...)
- **Lack of Nuanced Language Understanding** (struggle to fully comprehend the nuances, idiomatic expressions, and contextual complexities inherent in language use)
- **Difficulty in Assessing Higher-Order Language Skills** (serious challenges in evaluating and providing feedback on higher-order language skills like critical thinking, creativity, and pragmatic competence)



AI AND LANGUAGE TEACHING AND LEARNING: THE CHALLENGES AND LIMITATIONS

- **Limitations in Spontaneous and Interactive Language Use**
(absence of interactive language use that mirrors real-world communication)
- **Ethical Concerns and Data Privacy Considerations**
(problems with fairness, transparency, and accountability in the algorithms and data used, as well as protecting teachers' and learners' data privacy)
- **Dependence and addiction of both learners and teachers leading to laziness**

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OVERCOMING THE LIMITATIONS AND CHALLENGES OF AI INTEGRATED SYSTEMS AND TOOLS IN THE TEACHING AND LEARNING OF FOREIGN LANGUAGES.

- Assist teachers in designing lesson plans that effectively incorporate AI-based activities and leverage the strengths of both human and machine-powered instruction.
- Making all the resources available for the effectiveness and efficiency of AI integrated language classes (Infrastructures, technological tools and accessibility)
- Educate teachers on the ethical implications of using AI in language learning, such as data privacy, algorithmic bias, and transparency.

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OVERCOMING THE LIMITATIONS AND CHALLENGES OF AI INTEGRATED SYSTEMS AND TOOLS IN THE TEACHING AND LEARNING OF FOREIGN LANGUAGES.

- **Create collaborative networks and communities of practice where teachers can share best practices, troubleshoot challenges, and collectively learn from each other's experiences (CABITAT as a model of such).**
- **Encourage teachers to stay up-to-date with the latest advancements in AI-powered language learning tools and pedagogical approaches**
- **Encourage teachers to critically evaluate the ethical implications of AI integration and develop policies and protocols for its responsible use.**



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AI AND UDL PRINCIPLES

Multiple Means of Engagement

Stimulate motivation and sustained enthusiasm for learning by promoting various ways of engaging with material.



Multiple Means of Representation

Present information and content in a variety of ways to support understanding by students with different learning styles/abilities.



Multiple Means of Action/Expression

Offer options for students to demonstrate their learning in various ways (e.g. allow choice of assessment type).





CONCLUSION

- AI is finally a very important and crucial help both for language learners and teachers in this era of technology
- AI should however be used wisely within the respect of ethical considerations
- AI should be viewed understood and used as means towards goals, not and never as a replacement of language teachers and/or coaches



VIELEN DANK FÜR EURE
AUFMERKSAMKEIT
THANK YOU FOR YOUR KEEN ATTENTION

