

Quantitative Data encompasses measurable, numerical information about students' language learning progress. Examples include:

- **Test Scores and Quiz Results:** Numerical scores from standardized tests or classroom quizzes assessing vocabulary, grammar, and language structure knowledge.

- **Completion Rates:** Statistics on completing assignments, exercises, or language learning modules, indicating student engagement and diligence.

- **Pronunciation Accuracy:** Measured through speech recognition technology, this can provide scores or percentages indicating how closely a student's pronunciation matches the target language norms (OpenAI, 2024).

On the other hand, qualitative data involves non-numerical insights that provide depth and context to students' learning experiences. Examples include:

- **Oral Language Proficiency:** Observations from teachers about a student's ability to communicate effectively in the target language, including fluency, intonation, and use of idiomatic expressions.

- **Writing Samples:** Essays, journal entries, or other written work can be analyzed for language use, creativity, and the ability to convey complex ideas in the target language, offering insights beyond simple grammatical correctness.

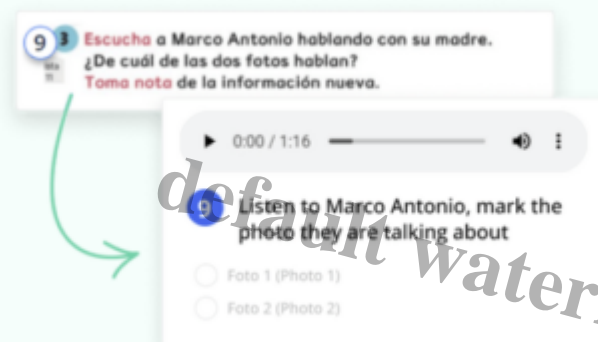
- **Self-Reflections and Feedback:** Students' reflections on their own learning experiences, challenges, and perceptions of progress, as well as their feedback on instructional methods and materials. These reflections can reveal personal hurdles, motivational levels, and preferences in learning styles (OpenAI, 2024).

The Benefits of Using Formative AI in World Language Education

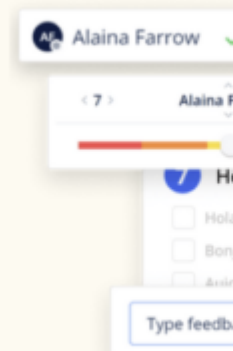
Formative AI, in the context of world language teaching, is an artificial intelligence system that analyzes language learning progress in real time. It can provide immediate feedback, personalized learning paths, and predictive analytics to help teachers better understand and support their students' language learning. This technology interprets various data points, from spoken language proficiency to written language understanding, making it a powerful tool for world language educators (Galaczi, 2023). Formative AI can analyze voice recordings to provide feedback on pronunciation, intonation, and fluency, helping teachers identify areas where students may need more practice. AI tools can evaluate written assignments for grammar, vocabulary usage, and even coherence, offering insights into students' writing skills (Poth, 2021). Also, providing and interpreting student data on how frequently and effectively students engage with language learning apps or platforms can help teachers understand their students' motivation levels and tailor instruction accordingly (Formative AI, <https://www.formative.com>).

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• Customized Learning Experiences: Formative AI allows for personalizing language learning by adjusting to each student's proficiency level and learning pace. For instance, a formative AI tool might modify language exercises based on a student's mastery of vocabulary or grammar, ensuring they are constantly challenged but not overwhelmed.

• Real-time Language Proficiency Assessment: Teachers can use formative AI to assess students' spoken and written language skills in real-time. Tools like speech recognition software can evaluate pronunciation, fluency, and usage, providing immediate feedback to students and valuable data to teachers.

• Engagement and Motivation: By providing instant feedback and adapting to individual learning needs, formative AI can keep students engaged and motivated. Gamified language learning platforms powered by AI can make learning a new language more interactive and fun.

• Cultural Competency: Some AI tools incorporate cultural context into language learning, helping students learn a language and understand the cultural nuances and idiomatic expressions crucial for true proficiency (Formative AI <https://www.formative.com/ai-powered>).

AI-driven language learning apps like Duolingo, which adapt lessons based on user performance and offer immediate feedback on exercises, are already being used in the classroom. Of course, no AI tool is made for perfection. AI tools may only partially capture the complexity of language learning, especially when learning cultures. Seeing AI as a tool with a human-centered approach, focusing on cultural aspects and real-world language use is essential. Like integrating any technology tool, protecting students' personal and performance data is crucial, adhering to strict data protection regulations and using secure platforms (U.S. Department of Education, Office of Educational

Technology. <https://tech.ed.gov>). Ensuring all students have access to the necessary technology is also important to ensure equity in language learning. Furthermore, professional development (PD) is always needed, like technology integration sessions on integrating formative AI tools into language teaching effectively, with workshops on combining AI tools with cultural teachings (Poth, 2021). Also, training on interpreting the data generated by AI tools to understand and design instruction based on accurate data is vital in supporting students in reaching their language learning goals.

Conclusion

ISTE Standards for Coaches states: 4.6 Data-Driven Decision-Maker: Coaches model and support the use of qualitative and quantitative data to inform their own instruction and professional learning. 4.6.b Help Educators Interpret Data: Support educators to interpret qualitative and quantitative data to inform their decisions and support individual student learning. Interpreting student data in world language classes provides insights into individual learning paths, enabling personalized instruction to address student needs. Understanding each student's strengths and weaknesses allows teachers to focus on areas that need improvement, whether vocabulary, grammar, pronunciation, or cultural nuances. Moreover, data interpretation helps track progress, ensuring students continuously advance toward language proficiency. Formative AI is a technology tool in world language education that offers personalized, engaging, and practical language learning experiences by interpreting student data (Formative AI, <https://www.formative.com>). Integrating formative AI in language teaching will likely become an increasingly important aspect of effective language education strategies as we move forward.

References

Formative AI <https://www.formative.com/ai-powered>

Galaczi, E. (2023). English language education in the era of generative AI: our perspective. Cambridge University Press & Assessment. [cambridgeenglish.org](https://www.cambridgeenglish.org)

Interpreting Findings. (n.d.). Loyola University Chicago. Retrieved February 11, 2024, from <https://www.luc.edu/studentdevelopment/aboutthedivision/assessment/interpretingfindings/>

OpenAI. (2024). ChatGPT (February 9 version) [Large language model]

Poth, R. D. (2021, January 12). 7 AI tools to help teachers save time and enhance learning. Edutopia. <https://www.edutopia.org/article/7-ai-tools-that-help-teachers-work-more-efficiently>

U.S. Department of Education, Office of Educational Technology. (2023). Artificial intelligence and the future of teaching and learning: Insights and recommendations. <https://tech.ed.gov>



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