

Rescoring Passages in Amira for Students with Articulation Challenges

What happens when teachers rescore passages in Amira?

Occasionally Amira will misscore a word within a passage that a student has read. Often this is due to technology or audio issues within the tutoring or assessment sessions; however, misscoring can also occur for students with articulation challenges.

When this occurs there are benefits to rescoring the passage:

1. Rescoring ensures students' scores are correct.
2. When educators rescore a student's passage, they are providing valuable feedback that helps "teach" Amira and enhance its accuracy over time. This process contributes to the ongoing refinement of Amira's speech recognition capabilities, allowing it to better accommodate individual speech patterns, including those with articulation difficulties.

Does rescoring directly impact how Amira interacts with my students?

Amira learns speech patterns more broadly rather than just individual students' speech. While it can adapt to recognize diverse accents and dialects, the AI does not continually learn from individual interactions in real-time. Instead it uses aggregated data and periodic updates to improve its understanding of speech patterns across a wide range of students.

This means that while Amira can accommodate various speech differences, it does not specifically tailor its learning to each student's unique speech patterns on an ongoing basis. However, rescoring passages can help improve its accuracy for individual students over time.

Rescoring passages helps improve Amira's accuracy for individual students over time by providing valuable feedback that contributes to the ongoing refinement of its AI models. While Amira does not learn individual speech patterns in real-time, this feedback is aggregated and used to retrain Amira's scoring models, enhancing its overall performance and accuracy across a broader range of students.

If Amira learns speech patterns more broadly rather than just individual student’s speech patterns, does the AI actually create a personalized learning experience for students?

Yes – Amira’s AI works for individual students by providing personalized, real-time tutoring as they read with Amira. The system employs advanced speech recognition and natural language processing to listen to students read aloud, assessing their reading abilities and delivering tailored support based on their performance.

While Amira does not learn individual speech patterns in real-time, it adapts its instruction based on the student’s performance. The tutoring experience is tailored to each student’s needs, guiding practice activities and interventions based on their unique challenges.

Key Features of Amira’s AI:

- 1. Real-Time Feedback:** As students read, Amira analyzes their speech patterns to identify specific reading challenges. It provides immediate interventions for errors, helping students improve their skills on the spot.
- 2. Micro-Interventions:** The AI selects appropriate micro-interventions based on the context of the student’s struggles, their historical performance, and the linguistic properties of the text being read. This ensures that the support is relevant and effective.
- 3. Adaptive Instruction:** Amira dynamically adjusts the complexity of texts and the level of support based on the student’s ongoing performance.
- 4. Continuous Data Capture:** During each reading session, Amira captures hundreds of data points, creating a comprehensive picture of the student’s reading abilities. This data informs the AI’s decisions and helps refine the tutoring experience for each student.