

Adaptive Mobile App Teaches Mexican Sign Language — TecNM/UABC Researchers Report 95.7% Gesture Accuracy and Strong Learning Gains

AI in Education · Good practice · Mexico

Quality score: 60/100

Evidence strength: Quasi-experimental

Summary

TecNM and UABC researchers in Tijuana built a mobile app using computer-vision gesture recognition and adaptive difficulty to teach Mexican Sign Language, reporting 95.7% recognition accuracy and a controlled-study learning gain of 0.78 over a non-adaptive control group.

Key dimensions

Dimension	Score
Evidence of learning impact	2/3
Equity & inclusion	3/3
Transparency, ethics & data protection	2/3
Teacher capability & pedagogy	1/3
Scalability & sustainability	1/3

Evaluated by C-NAPSE

Data sources

C-NAPSE web research — accessed 2026-09-12

Tecnológico Nacional de México (TecNM) / Instituto Tecnológico de Tijuana, with Universidad Autónoma de Baja California (UABC) — accessed 2026-09-12

Adaptive Assistive Technologies for Learning Mexican Sign Language (MDPI Future Internet, 2026) — accessed 2026-09-12

TecNM Institutional Repository — App Android para el Aprendizaje del Lenguaje de Señas Mexicano — accessed 2026-09-12

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