

NAO Robot Colombian Sign Language Tutor — Universidad de La Sabana's LSTM-Powered Vocabulary Trainer

AI in Education · Good practice · Colombia

Quality score: 27/100

Evidence strength: Descriptive / self-reported

Summary

A team from Universidad de La Sabana taught a NAO humanoid robot to teach and check basic Colombian Sign Language vocabulary, hitting 91.6-93.8% sign-recognition accuracy in lab tests — a promising prototype the authors admit has not yet been tried with deaf students.

Key dimensions

Dimension	Score
Evidence of learning impact	0/3
Equity & inclusion	1/3
Transparency, ethics & data protection	2/3
Teacher capability & pedagogy	0/3
Scalability & sustainability	1/3

Evaluated by C-NAPSE

Data sources

[C-NAPSE web research](#) — accessed 2026-07-31

[Universidad de La Sabana \(CAPSAB Research Group, Faculty of Engineering\)](#) — accessed 2026-07-31

[Study \(Frontiers in Robotics and AI, via PMC, 2024\)](#) — accessed 2026-07-31

[Infobae coverage \(Spanish\)](#) — accessed 2026-07-31

[Universidad de La Sabana news](#) — accessed 2026-07-31

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