GPT-4 Homework Tutor RCT — Istituto Pindemonte, Verona: Small English-Class Trial Shows Engagement Gains but No Significant Overall Learning Effect

AI in Education · Good practice · Italy

Quality score: 47/100

Evidence strength: Moderate

Summary

ETH Zürich researchers replaced traditional English homework with a GPT-4 tutor for half of 75 students in four classes at a Verona technical school. Over 8 weeks the overall learning effect was small and not significant (d=0.25, p=0.31); engagement and satisfaction rose.

Key dimensions

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

Evaluated by C-NAPSE

Data sources

C-NAPSE web research — accessed 2026-11-16

ETH Zürich (with Istituto Pindemonte, Verona) — accessed 2026-11-16

arXiv preprint (Vanzo, Pal Chowdhury & Sachan) — accessed 2026-11-16

ACL 2025 Anthology entry — accessed 2026-11-16

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