ChatGPT Adaptive Feedback for Trainee Teachers' Diagnostic Reasoning — Freie Universität Berlin's 269-Student Randomised Trial

AI in Education · Good practice · Germany

Quality score: 60/100

Evidence strength: Moderate

Summary

A randomised trial led by Freie Universität Berlin gave 269 German pre-service teachers either ChatGPT-generated adaptive feedback or a static expert solution on a diagnostic-reasoning task. The AI feedback improved justification quality but not decision accuracy.

Key dimensions

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

Evaluated by C-NAPSE

Data sources

C-NAPSE web research — accessed 2026-11-10

Freie Universität Berlin — accessed 2026-11-10

Kinder et al. (2025), Computers and Education: Artificial Intelligence 8, 100349 — accessed 2026-11-10

Freie Universität Berlin Refubium repository record — accessed 2026-11-10

OpenAlex record with author affiliations — accessed 2026-11-10

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