

GPT-3.5 Feedback Raises Text Revision and Motivation — A Randomised Trial with German Upper-Secondary Students

AI in Education · Good practice · Germany

Quality score: 27/100

Evidence strength: Cautionary / limited

Summary

A randomised trial with 459 German Grade 10 students found GPT-3.5-turbo-generated writing feedback modestly improved essay revision ($d=0.19$), motivation ($d=0.36$) and positive emotion ($d=0.34$) versus no AI feedback — real but small, single-school effects.

Key dimensions

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

Evaluated by C-NAPSE

Data sources

[C-NAPSE web research](#) — accessed 2026-09-01

[IPN – Leibniz Institute for Science and Mathematics Education, Kiel](#) — accessed 2026-09-01

[ScienceDirect: Computers and Education: Artificial Intelligence](#) — accessed 2026-09-01

[DOAJ open-access record](#) — accessed 2026-09-01

[IPN Leibniz Institute researcher profile \(Jennifer Meyer\)](#) — accessed 2026-09-01

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