



AI Literacy for Young Learners

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Academic Insights

This systematic review synthesises 25 empirical studies examining how AI literacy is conceptualised, taught, and assessed in primary education. The review analyses learning objectives, pedagogical approaches, instructional tools, and reported learning outcomes. AI literacy is framed as an extension of digital literacy that includes interaction with intelligent systems, early computational thinking, data awareness, and ethical understanding. The study highlights the effectiveness of hands-on, experiential approaches and identifies gaps in teacher preparation and curriculum guidance for primary-level AI education.

Apply These Now

Choose AI activities that make system behaviour visible and explainable.
Ensure tasks align with children's developmental readiness.

Add These in Your Lesson

Pair simple AI interactions with discussion about data and fairness.
Encourage learners to explain outcomes in their own words.

Avoid These Mistakes

Assuming early exposure leads to understanding.
Introducing AI tools without explanation or reflection.

Keywords

AI literacy; Primary education; Young learners; Ethics; Systematic review

Reference

Yim, I. H. Y., & Su, J. (2025). *Artificial intelligence literacy education in primary schools: A review*. *International Journal of Technology and Design Education*, 35, 2175–2204.

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