

# Artificial Intelligence for Climate Literacy: Transforming Environmental Education in the Digital Era

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**Abstract:** *This paper explores the role of artificial intelligence (AI) in enhancing climate literacy within modern environmental education. It highlights how AI-based tools such as intelligent tutoring systems, adaptive learning platforms, and data-driven simulations can simplify complex climate concepts and support personalized learning. The study also addresses key challenges including digital inequality, ethical concerns, and the need for proper pedagogical integration. The paper concludes that AI, when used responsibly, can strengthen climate literacy by promoting critical thinking, informed decision-making, and active civic participation.*

**Keywords:** Artificial Intelligence, Climate Literacy, Environmental Education, Adaptive Learning, Sustainability