

## Education and Learning with Artificial Intelligence (ICELAI-26)

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### **Abstract**

Artificial Intelligence (AI) has the power to finally address the well-known “Two Sigma Problem,” which means giving every student highly effective, personalized learning. But while schools rush to use AI, a new problem is growing fast: many students and teachers do not know how to use AI correctly. This paper argues that AI will remain risky if we focus only on technology and ignore the human skills needed to work with it. Our review of international research from 2023–2024 confirms that AI gives many benefits, such as 24-hour support and instant feedback. However, these benefits are often lost because of new problems, including weaker critical thinking, over-reliance on AI tools, and serious issues with data and privacy. To reduce these risks, the paper identifies three simple but essential skills that every student must learn: Technical Clarity (writing clear and effective prompts), Continuous Curiosity, and Practical Problem-Solving (finding and fixing errors). The paper presents a step-by-step plan for teaching and measuring these skills in any school. The conclusion gives a short policy guide, calling for required teacher training and the integration of these three skills into school programs. These actions will help schools use AI safely and effectively.

### **Keywords**

AI literacy, personalized learning, Two Sigma Problem, teacher training, education policy.