AI Fluency Through the IS Curriculum: Teaching Judgment in an Age of Automation

Deepak Khazanchi

College of Information Science Technology, University of Nebraska at Omaha, 6708 Pine Street, Omaha, USA

Abstract

As generative AI becomes embedded in higher education, the central pedagogical challenge is no longer whether students will use AI, but whether curricula help them develop sound judgment about how and when to use it. This keynote introduces AI fluency as a curriculum-level learning outcome for Information Systems education, one that extends beyond tool proficiency to include epistemic understanding, ethical reasoning, and metacognitive reflection. Drawing on a multi-year curricular redesign and assessment initiative, the talk examines how unstructured AI use can lead to deskilling, mis-skilling, and overreliance, and argues that these risks are fundamentally design problems rather than student failures. Using the Rigor in AI framework proposed by Olteanu et al. (2025) and examples from scaffolded AI integration across IS course sequences, the keynote outlines how programs can embed AI fluency longitudinally, preserve foundational skills, and prepare graduates to supervise, critique, and responsibly integrate AI in organizational contexts. The talk offers a transferable model for faculty seeking to align AI use with deep learning, disciplinary integrity, and ethical accountability.

Keywords

artifical inteligence ethics, algorithmic bias, fairness and accountability, stakeholder trust, AI ethics education

Declaration on Generative AI

The authors have not employed any Generative AI tools.

CEUR-WS.org/Vol-4333/abstract1.pdf

NWISEd 2026: Workshop on Co-Creating New Ways, of Information Systems Education, July 1–3, 2026, Swansea, United Kingdom

khazanchi@unomaha.edu (D. Khazanchi)

0000-0002-2675-2871 (D. Khazanchi)



© 2026 Copyright for this paper by its authors. Use permitted under Creative Commons License Attribution 4.0 International (CC BY 4.0).

CEUR Workshop Proceedings ceur-ws.org ISSN 1613-0073

published 2026-11-19