Beyond the Hype: Strategic Implementation of GenAI for Educational Transformation

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ABSTRACT

Generative AI offers profound potential for education, yet many institutions struggle to translate pilots into measurable productivity gains. This paper introduces a strategic framework for GenAI integration, moving beyond technology-first approaches to focus on value-driven, human-centered implementation that truly enhances learning outcomes and institutional effectiveness. Drawing on Gartner's productivity research and real-world experience across diverse educational environments in Singapore and Asia, we reveal critical success factors: strategic alignment with institutional goals, targeted application in high-value educational use cases, and thoughtful integration with existing pedagogical approaches. The core contribution is the Educational AI Value Matrix, a novel tool for systematically mapping potential GenAI applications against implementation complexity and expected impact, enabling leaders to prioritize investments effectively. Case studies from K-12 and higher education demonstrate how this framework has successfully guided personalized learning pathways, intelligent content creation, and administrative efficiency, highlighting practical applicability. We also address critical considerations for robust educational AI governance, encompassing ethical implications, faculty readiness, and the development of meaningful metrics for measuring AI's true impact on educational outcomes. Challenging prevailing technology-centric models, this presentation offers a pragmatic roadmap for maximizing GenAI's transformative potential while avoiding costly distractions and accelerating enterprise-wide AI readiness. Attendees will gain actionable insights for developing strategic GenAI plans tailored to their institutional contexts, complete with practical tools for assessing organizational readiness and measuring implementation success.

Keywords: AI Governance; Educational Transformation; Organizational Strategy; Pedagogy; Strategic Implementation