

Generative AI in the Professional IT Landscape and its Implications for Higher Education

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Abstract:

In the EDU-AI project (Adapting Computing Education for an AI-Driven Future: Empirical Insights and Guidelines for Integrating Generative AI into Curriculum and Practice), we investigate the application of generative AI by IT professionals, how students view this technology in higher education, as well as faculty adaptation and changing teaching strategies due to generative AI. This presentation will be based on a report from the EDU-AI project where we summarize ongoing research and discuss findings, related to higher education teaching and learning. These findings include adoption patterns with generative AI, generative AI advantages (such as increased productivity, enhanced learning, and innovative problem-solving), challenges with generative AI (such as ethical considerations, data biases, and potential misuse), and possible AI competence requirements in future labor market.

Keywords: Generative AI, IT Professionals, Computing Education, Teaching and Learning, Higher Education