# STEM AND ARTIFICIAL INTELLIGENCE IN EDUCATION: TRANSFORMING PRIMARY SCHOOL LEARNING THROUGH INNOVATION

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**Abstract.** *The report examines the integration of STEM approaches and artificial intelligence (AI) in the educational process. By using AI technologies as part of the curriculum, students gain access to innovative methods of research and problem solving in real-world situations. The training is structured to support creative thinking and collaboration by working on projects that combine science, technology and artificial intelligence algorithms. The classroom examples are with junior high students and show how AI can facilitate learning by simulating science experiments, analyzing results, and developing their own models. The results demonstrate increasing participation and deeper understanding of the learning material, as well as the development of key digital skills.*

**Key words:** STEM, AI, Education, Students, Teachers.

## Acknowledgments

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