

Evaluation Report of the "Artificial Intelligence for Vocational Education and Training (AI4VET)" Project

The Artificial Intelligence for Vocational Education and Training (AI4VET) project constitutes a highly relevant and timely initiative within the Erasmus+ framework, responding to the pressing need to integrate artificial intelligence into vocational education. Although originally conceived for vocational education and training, the project's scope was subsequently broadened to also encompass mainstream education, thereby extending its reach and impact to a wider range of educational settings. Through the development of a comprehensive set of pedagogical and technical resources, the project reflects a strong commitment to equipping both teachers and students with essential digital and AI-related competencies. Its outputs encompass extensive theoretical materials, practical guides, and hands-on project collections, spanning topics from foundational AI concepts to more advanced applications such as machine learning, robotics, and computer vision. These resources, freely available on the project website (<https://ai4vet.eu/>), notably include multilingual textbooks for students and teachers, together with a dedicated learning platform, thereby ensuring accessibility and long-term impact across diverse educational contexts.

A major strength of the project lies in its strong emphasis on teacher training and professional development. The initiative offers specialized training sessions designed to enable educators to effectively integrate AI tools into their teaching practices, including the use of platforms such as ChatGPT and Microsoft Copilot. This structured approach to capacity-building empowers teachers to adopt innovative pedagogical methodologies while also addressing the ethical and practical challenges associated with the use of AI in education. The project's tangible impact is reflected in the considerable number of teachers who have benefited from these targeted training activities, underscoring its contribution to the modernization of teaching competencies not only within the vocational sector but also in regular education.

Equally significant is the project's focus on student training and engagement. AI4VET provides learners with access to interactive courses, practical exercises, and hands-on experimentation with real-world technologies, including hardware platforms and immersive environments such as AR/VR applications. This approach promotes active learning and supports the development of critical thinking, technical, and problem-solving skills that are essential for future employability. The diversity of participating students, drawn from different courses, educational levels and types of schools — encompassing both vocational and regular education —, further enhances the project's inclusivity and ensures that its benefits reach a broad target audience.

Finally, the international dimension of the AI4VET project adds considerable value, fostering collaboration and exchange among teachers and students from different countries, including Portugal, Slovakia, and Serbia. Through joint activities, training sessions, and the collaborative development of resources, the project promotes intercultural dialogue and the sharing of best practices in AI education. This transnational cooperation not only strengthens the quality and relevance of the project's outputs but also contributes to the creation of a dynamic learning community, in line with European priorities for innovation, digital transition, and educational cooperation.

Overall, the AI4VET project represents a significant contribution to advancing the integration of AI in education, with clear and lasting benefits for both teachers and students.

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