

Artin Future Project: Easy-To-Apply Study Materials to Explain AI in a Simple Way

The project foresees to develop training and study materials in the field of ethics and digital skills in order to promote better understanding of real-life AI solutions. Project partners – BEST center – have developed instructions and support materials on how to teach about ethical aspects of AI, while Technical University Dresden have presented their vision regarding teaching approaches implemented to develop digital skills required to work with AI. The material development has been discussed also during the TPM held in October in Vienna (Austria). By December 2021, partners have finished the material development and are proceeding with material peer review in preparation for piloting.

During the first steps of the project implementation, the leading project partners Internationaler Bund (IB) Mitte gGmbH (Germany), BEST institute (Austria), and Technische Universität Dresden (Germany) have developed materials of their corresponding intellectual output (IO), namely, Internationaler Bund have worked on development of the OER Hub, BEST institut have elaborated lesson plans with hand-out materials for teachers on the topic of ethics in AI, while Technische Universität Dresden have developed a hand-out for educators regarding curriculum development in the field of digital skills training.

The first intellectual output (IO1) developed by BEST Institut covers such topics as (1) what AI is (Weak AI, strong AI, artificial superintelligence – ASI) while introducing teachers to AI and presenting ethical principles and their relevance to ICT and AI, (2) what AI does while describing the potential of AI, the risks of AI, and providing learners with an opportunity to conduct a case study of the potential and risks of AI, (3) what impact AI has while discussing the effects of AI on future work and life and its ethical implications, acknowledging the effects of AI on future work as well as presenting ethical skills and attitudes to prepare humans for life and work with AI technologies. The second intellectual output (IO2) developed by Technical University Dresden presents teaching guidelines distributed among 3 modules: Module 1 deals with background information, historical development and ethical principles of AI while covering such points as motivational aspects, definition and differentiation, ethical standards and principles. Module 2 explains how AI works and, in particular, how humans learn and how machines learn, how to apply AI in robotics as well as gives an opportunity to test AI applications. Module 3 presents AI in everyday life and at work while giving a chance to explore where people encounter AI in everyday life, as well as the support and potential danger caused by AI in everyday life. It also presents an opportunity to AI at work through coding. The third intellectual output (IO3) developed by IB Centre provides everyone with an opportunity to explore various online materials related to AI such as news articles, video testimonies, links to study and learning materials, interviews, etc. The section of video pitches presents video testimonies by different companies in project partner countries who use AI in their work.

In further stages of project implementation, project partner organizations will proceed with piloting of the developed IO1, IO2, IO3 materials as well as to adapt them to every partner's needs and educational environment their work in, if needed. Prior to piloting, partners will also ensure training of at least 25 teachers each in the use of the adapted project materials.