

Using AI in History and Archaeology Field Study



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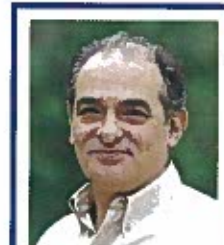
Teaching history and archaeology frequently involves site and museum visits, personal examinations of monuments and artefacts, as well as on-site assignments to enhance personal experience. Students are given either digital or, more commonly, physical maps, architectural plans, and illustrations to assist them in their exploration of a Mycenaean palace, an Archaic cemetery, or a Classical sanctuary. At the same time, cutting edge technologies—from simple databases to elaborate software for, say, network

and least-cost path analysis—have been used for a number of years. And thus digital humanities became a reality.

AI CAN TEACH STUDENTS THROUGH PERSONALIZED ON-SITE ASSIGNMENTS AND ASSISTANCE

Based on this acquired knowledge, AI can offer an exciting new range of tools to teach students through personalized on-site assignments and assistance. Visual data such as maps and plans, together with textual documentation both from ancient sources and modern scholarship, can be used on portable devices to assist students during their field study. Tentative reconstructions, illustrations, and a variety of images can be checked, compared and contrasted simultaneously while walking around a museum or site. The accessibility of the information, the speed at which this can be accessed and used and the monitoring by the AI assistant will allow students to get the most out of their experience in the field. By uploading photos, notes and questions on a tailor-made platform (designed by AI), that meets students' individual needs, students can benefit from immediate feedback and guidance. The learning outcomes of this practice, which can be used both systematically or ad hoc, have the potential to transform the experience of learning in situ.

How is AI Making an Impact in the Field of Education?



— BY —

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The recent Covid-19 pandemic has forced education to turn to new technological applications, including AI, whose future contribution to educational processes looks very promising, particularly given that technology can improve efficiency in vocational education.

AI technologies have the capacity to literally revolutionize the education ecosystem and industry; for example, by supporting universal real time lesson adaptation to cover students' needs, automating tasks and providing personalized tutoring,

improving communication, optimizing class learning environments, developing curricula, and improving planning efficiency. However, the rules governing experiential learning create debates among the main stakeholders in relation to the value of preserving human emotions, ethics, and the socialization of the individual. Besides offering knowledge and skill growth, schooling is the main vehicle for the socialization of the individual. In the context of vocational education, gaining skills combined with relevant scientific knowledge, lead to the view that experiential learning is irreplaceable.

According to the current level of technology, AI can only be used supplementarily for the holistic educational completion of the individual (brain-hands-heart). Regardless of how well AI systems are programmed to respond, it is unlikely that humans will ever develop strong emotional connections with these machines. Hence, AI cannot yet replace humans, especially in combination with other vital elements, thus protecting the educational ecosystem's capital and evolution. Seemingly, AI's exclusive application may signify a gradual reduction of values the school system presents due to the lack of a conceptual operational framework. To that extent, the European Commission is currently drafting relevant legislation to ensure ethical practices, fundamental rights and security for stakeholders and users.

AI TECHNOLOGIES HAVE THE CAPACITY TO LITERALLY REVOLUTIONIZE THE EDUCATION ECOSYSTEM