

## KITA – AI tutor to support vocational textile training

### Project Content

The 'AI tutor to support vocational textile training' project addresses key challenges facing the textile industry in Saxony and across Europe. In view of the increasing shortage of skilled workers, particularly in small and medium-sized enterprises (SMEs), we, the team at the Sächsisches Textilforschungsinstitut e.V. (STFI) and the Technische Universität Chemnitz, want to develop a future-oriented, AI-based learning environment. The aim is to support companies in the further training and qualification of their employees and at the same time to attract new target groups, such as career changers, to the textile industry.

The textile industry in particular, with its highly technical machines and processes, is dependent on well-trained specialists. This is where our project comes in: complex interrelationships are to be presented in an understandable way in order to make it easier for both career starters and experienced employees to access relevant learning content. The central goal is to develop a multimodal learning environment based on generative artificial intelligence (AI). Modern AI language models are capable of conducting natural dialogues, explaining complex content in an understandable way and adapting learning materials to the individual needs of users. As purely text-based learning is often tedious, the aim is to create a multimodal learning environment that virtually combines text, images, sound and 3D elements.

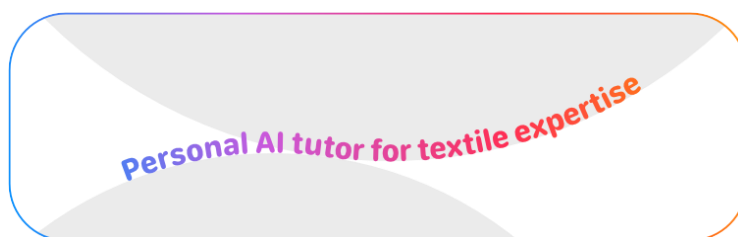
These skills are to be further developed in a targeted manner and used for personalized knowledge transfer as well as for interactive and adaptive learning in the textile sector. The AI tutor is designed to function both as a standalone learning solution and as a useful supplement to existing seminars and training courses.

### Project Launch

07/2025

### Project Partner

Technische Universität Chemnitz, Professur Textile Technologien



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