

## Brief presentation of the exciting AI technology

Artificial intelligence (AI) has been used for years with various tools in research and development, namely for the automation of certain time-consuming tasks in production or logistics, for image and speech recognition for the automatic classification of images or for voice assistants, as well as for the recognition of technological trends to safeguard corporate strategy.

In recent years in particular, technologies such as deep learning have made breakthroughs in areas such as image and speech recognition, natural language processing (NLP) with the ability to understand and process human language for use in chat bots, and generative adversarial networks (GANs) that enable AI to generate new content with applications in image and music generation. These developments will continue at a rapid pace.

With the general availability of Chat GPT or even google Bard, AI tools are available for the mass market which, due to the simple voice input and output, can give practically any user the assessment to become an expert in any discipline. In terms of education, one could say that in future every learner will be able to consult a personal tutor.

In addition to the errors that AI tools inherently bring with them, the quality of the answers naturally also depends on the quality of the questions asked of the AI. This has already led to a new profession of "prompt engineering", which has set itself the task of considering in advance exactly what you want to know from the AI and how the initial question or follow-up questions should be structured and formulated. The aim is to increase confidence in the use of AI tools and technological intelligence.

Experts in the education sector are also taking advantage of the enormous advances in AI in recent years. Chat bots help with research, the creation of personalized educational content, translations, image creation, the analysis of weaknesses in grammar, spelling and more.

The use of AI tools in the education sector is the subject of controversial debate when it comes to assessing the opportunities and benefits. This technology will not disappear, but it is the task of those responsible to shape the future of education with AI and helpful solutions.