

AI KNOWLEDGE

Critical analyses & creative practice

In just under 180 pages, the magazine covers topics that explain current developments in the field of AI:

Current AI developments

Here, our latest tests shed light on current language models and AI search engines, and we also have an interview with an AI developer.

AI in science

It is now impossible to imagine chemistry and physics without AI, as two background articles on the latest Nobell prizes show. We explain how researchers in Germany can participate in the KISSKI project at universities, the impact of AI in education and what is happening beyond language models in Causal Machine Learning.

Hardware & resource requirements

LLMs continue to grow and consume crazy amounts of energy and money, so much so that even new nuclear power plants are to be built. We not only provide an overview of the requirements for sustainable AI, but also calculate in concrete terms how much power a large LLM needs. We also explain how they can be scaled down and accelerated using quantisation so that they can also run locally on smartphones. Readers will also find out what all the AI benchmarks are actually about and the pitfalls of measuring the performance of a language model.

AI practice in everyday life

Our report on sex robots looks behind the scenes of AI-controlled sex work, our test shows how the first AI images learn to walk, how AI helps with pentests of websites and learning new languages, and how AI scripts can be used to programme Sonic Pi in music lessons.

EU regulation and data protection

The AI Act will be finalised in the EU by August 2025 with concrete implementations in the individual countries. Meanwhile, a political battle is raging over how much regulation is necessary. Authors, artists, musicians and publishers are fighting with their collecting societies for an appropriate share of the AI boom. At the same time, public and private areas are being monitored ever more closely with AI-controlled cameras, which raises new data protection issues. Our articles provide an overview of the current state of the debate.

DATES

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