

AI and Digital Services Available to Us

Vojtěch Chlan

MFF UK

Academic work increasingly depends on a broad range of digital tools and services. Many are already available through our faculty, Charles University, or national research infrastructures, yet often remain underused because information about them is scattered or the initial barrier appears too high. This seminar offers a practical overview of selected tools that can save time, simplify routine tasks, and make technically demanding work more accessible. It is aimed primarily at beginners and occasional users, but more experienced users may also discover some less familiar services or new ways to combine them.

Artificial intelligence will be a central theme, but not the only one. Examples will include finding and organizing information, comparing documents, preparing teaching materials, searching scientific literature, and assisting with scientific programming. The seminar will also introduce services for collaborative writing, data transfer and backup, interactive computing, software, and computing resources. More advanced examples will show how AI can work with files, command-line tools, or predefined external services - mainly to illustrate what is already possible rather than what participants are expected to master.

Attention will also be paid to realistic limitations. AI-generated answers can be plausible and still wrong, access to information may be incomplete, and different tasks require different forms of verification. The seminar will address reproducibility, data sensitivity, user responsibility, and the need to keep human interaction central in teaching and student supervision.

The aim is not to present an exhaustive list of tools or to encourage the use of AI for every task. Instead, the seminar should help participants identify useful opportunities in their own work and choose one or two practical changes that can reduce routine work and leave more time for research, teaching, and meaningful interaction with students and colleagues.