

Tutorial 15

Exercise 1 (Bounded Integral).

Compute for $\theta \in [0,1]$ the integral

$$6 \int_0^1 (\theta v + 1 - \theta)^2 \left(1 - \frac{(1 - \theta)(1 - v)}{1 - \theta + v} \right) dv - 2$$

and create a LaTeX document with the integral and its result in an equation.

Exercise 2 (Create an additional Lecture 13).

Create slides for an additional Lecture 13 on a topic of your choice, e.g.

- Huggingface Transformers and Weights & Biases (WandB).
- CI/CD Pipelines and Web Hooks
- Cloud Computing (AWS, Azure, GCP, ...)
- Web Development with Django
- Agile Development with Jira and Confluence
- etc.

In our GitHub repository, you will find a draft for the slides for your lecture under `latex/lecture13.tex`. To use the Uni Freiburg design, download the `ufcd` folder from Ilias, unzip it, and store it next to your `.tex` file. The sample content for the slides you can then generate with an AI tool like ChatGPT by providing it the `lecture13.tex` file as an exemplary input and asking it to generate slides on the topic which you chose. Include also a slide with a little image (for example a meme related to the topic).

Exercise 3 (Backup).

The GitHub repository for this course will be privatized at some point in the future. Fork it or create a save backup in case you want to access it again later.