Our **trainings** introduce the foundations of data analysis and relevant tools for data scientists. During our sessions, we always keep data-driven use cases in sight. Our modular training concept consists of skill building blocks from introductory to expert level. We emphasize applications and a hands-on approach. All trainings take place in a virtual environment or on-site. Our trainers are senior data scientists with extensive experience in research and industry.

Our **TechTrainings** are geared towards technical users - data scientists, analysts, engineers - building data-driven innovation hands-on.

Our **BusinessTrainings** provide insights for decision makers - shedding light on how to put data science and artificial intelligence to work in the enterprise.

We use our **digital laboratory in the cloud**, thus each participant can work at his workspace independently while the trainer is presenting. We focus on interactivity, hands-on and individual support. This is what we aim with our developed and well tested trainings material in Jupyter Notebooks, small group sizes and enough time for practice.
Deep Learning with TensorFlow
DLT

Deep dive into the fundamentals of deep learning and neural networks with TensorFlow/Keras to improve your machine learning skills.

**Level:** ☢️ (Advanced)

**Duration:** 2 days

**Prerequisites:** DAP + MLP (or similar know-how)

**Language:** english, german; materials are in english

1. **Deep Learning Walkthrough**
   Neural networks explained step by step.

2. **Watching the Network Learn**
   Observing training progress and diagnosing trouble.

3. **Saving and Loading Models**
   Exporting models to files.

4. **Applying Pretrained Models**
   Reinvent the wheel only when necessary.

5. **Explainable AI**
   Tools for interpreting neural network outputs.

6. **Applications and Hands-On Exercises**
   Classification, regression, computer vision, dimensionality reduction, time series analytics...