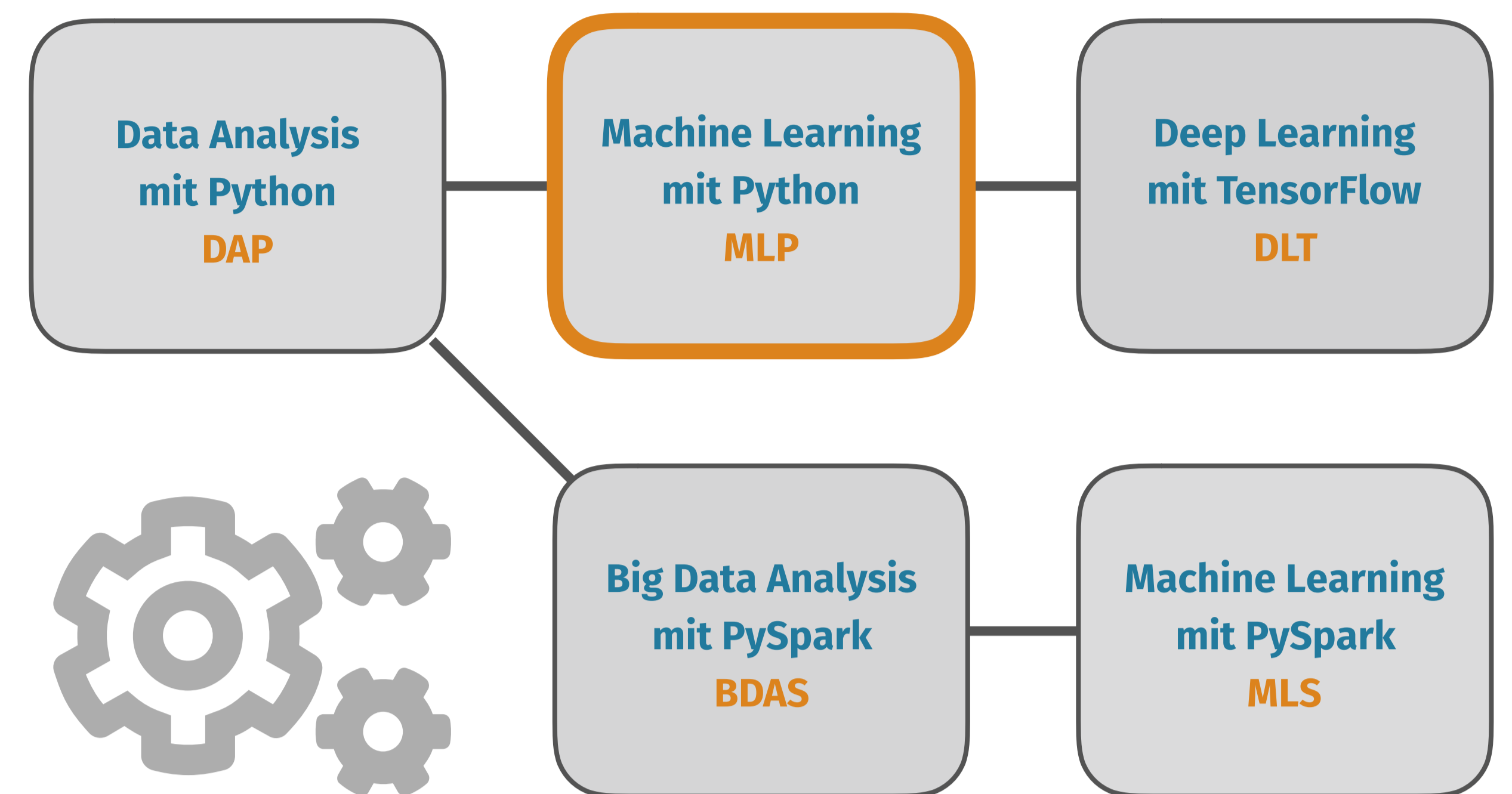


Machine Learning mit Python MLP

point8
data matters.

Theorie, Anwendung und Erstellen von ersten Machine Learning Pipelines in Python mit dem *scikit-learn* Paket.



TechTrainings für Anwender, Umsetzer und alle, die selber Hand anlegen wollen.

Level: ▶▶ (Fortgeschrittene)

Länge: 2 Tage

Voraussetzung: DAP (oder vergleichbares Know-how)

Kursprache: Deutsch (Englisch auf Anfrage); Materialien auf Englisch

1. Introduction to Machine Learning

An overview of the field of machine learning & AI with related use cases. What is a label? When do I need supervised, unsupervised or reinforcement learning?

2. ML workflow

We get an overview of each step, learn more about problems and pitfalls, and find out that machine learning and AI are not magic. We go through a standard machine learning workflow:

- From data generation, import and preparation
- via feature exploration and engineering
- to model definition, training and validation.

3. ML run-through

Build a classification model and learn about the building blocks of ML with Python using *scikit-learn*. We apply all steps we learnt in the previous section to a test data set.

- Getting started:**
Let's try out different models in Python and see how well your learner can perform.
- Deep(er) dive:**
Now, we move on to slightly more complicated data. You will see that devil is in the details.

4. Supervised and unsupervised learning

Using some generated data sets, we compare the performance of different machine learning algorithms and find out how important it is to know your data.

5. Outlook

What other options exist when using Python for machine learning?