Schritt 1 Deep Learning Pipeline: Konvertiere mp3 zu wav

Audio Daten lassen sich wesentlich schneller laden, wenn sie in PCM Form vorliegen.

In [1]:
```
import os, os.path
from pydub import AudioSegment
from tqdm import tqdm
```

In [2]:
```
input_fold="./all_samples"
output_fold="./all_samples_wav"
sr = 22050

for dirname, _, filenames in tqdm(os.walk(input_fold)):
    for filename in filenames:
        # files
        src = f'{dirname}/{filename}'
        dst_fold = f'{output_fold}/{dirname[len(input_fold)+1:]}'

        # create target folder if not exists
        isExist = os.path.exists(dst_fold)
        if not isExist:
            os.makedirs(dst_fold)

        dst = f'{dst_fold}/{os.path.splitext(filename)[0]}.wav'

        # convert wav to mp3
        sound = AudioSegment.from_mp3(src)
        sound = sound.set_frame_rate(sr)
        sound.export(dst, format="wav")
```

```
60it [32:27, 32.45s/it]
```