Summary: State-of-the-art Machine Learning implementations for segmentation and classification including CNN, Faster R-CNN, supervised by the IP group (I16, PD Dr. Tobias Lasser).

Problem: Medical doctors are not good at Machine Learning.

Your Task:

Use medical data to create a Machine Learning proof of concept (radiology and dermatology detection tasks using CNNs):

1. Preprocess the given data
2. Find the best network architecture for the problem
3. Implement the network
4. Train the network (we have in-house RTX 3090 and A100 to train on)
5. Tune the hyper parameters
6. Show a demo (e.g. an app or Python demo)

Tech stack: Python, TensorFlow, Keras, PyTorch, (optionally: Android, iOS or React JS)

Application: Nicolas Jakob, nicolas.jakob@tum.de (please send us your CV, transcript and relevant projects in ML)