Scene Understanding from Few Supervised Samples
Bachelor’s Thesis, Seminar Project

Objective:
We investigate how to efficiently adapt a pre-trained machine learning model to new domains. Therefore, we will automatically identify hard samples given the task at hand which are then interactively refined by a human operator. The goal is to minimize the human supervision while maximizing the algorithm’s accuracy. This project can be scaled according to your requirements. Potential research directions include

- domain adaptation and transfer learning,
- online (interactive) classifier adaptation,
- exploiting different image modalities (depth, near-infrared, thermal, etc.)

Qualifications:
- Interest in Computer Vision/Machine Learning
- Basic programming skills in JavaScript, Python or C++ (optional)

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