Danik Hollatz
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Deep Learning Engineer
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SKILLS

- **Python** for **Computer Vision, NLP, Audio Signal Processing**. Good knowledge of Java, C#

- **Working with:** PyTorch, TensorFlow, Numpy, Pandas, Matplotlib, OpenCV, Seaborn, Scikit-learn

- **Other:** SQL, Linux, Git, basics of SLURM, working via SSH

- **Languages**: German (C1), English (C1), Russian (native), Ukranian (native)

WORKING EXPIRIENCE

- **Internship and Master Thesis @ Bosch**   Germany, *October 2023 - May 2024*
  Created pipelines for environment reconstructions using NeRF's

- **Working Student @ EDAG**   Germany, *January 2023 - July 2023*
  Developed deep learning based algorithms for the task of Object Detection.

- **Research Assistant @ LUH**   Germany, *December 2021 - January 2023*
  Created pipelines based on VQ-VAE and other (e.g.: link, link) methods for Anomaly Detection.

EDUCATION

- **Master at Leibniz University Hannover**   Germany
  Machine Learning   *2021-2023*

- **Bachelor at Martin Luther University**   Germany
  Informatics   *2018-2021*

  - **Bachelor Thesis**: Deep Learning for Locating Seed Placements in Images (PyTorch)
    My Bachelor work describing my understanding of the fundamental of Neural Networks, especially Computer Vision and creating and approaches for tasks of Semantic Segmentation and Object Localization

  - **Uni Praxis**: Correction of Street Spellings in Germany (TensorFlow)
    I have implemented an RNN that was capable to detect and correct up to 85% of typos in street spellings.
    github link

  - **Information Retrieval**: Pipelines for predicting quality of arguments and retrieving them.
    Paper, Top-1 Uni-team and Top-7 overall in Touché @ CLEF as team 'Luke Skywalker'

- **Bachelor at Odessa State Environmental University**   Ukraine
  Computer Science   *2017-2021*

  - **Bachelor Thesis**: Precision-Oriented Argument Retrieval
    In this work I used pretrained deep learning models based on BERT to create precision-oriented argument retrieval pipelines. A big part of the work was also to create multiple fine-tuned models and compare them using different retrieval models.

PET-PROJECTS

- **FlowNet Simple Implementation:** github link (PyTorch)
  Implemented a FlowNet to perform Optical flow estimation on the KITTI dataset.

- **SegNet Implementation:** github link (PyTorch)
  I have implemented one of the most popular networks for semantic segmentation and applied it on dermoscopic images.

- **SincNet Implementation:** github link (TensorFlow)
  In this Project I created a baseline described in Paper for Speaker Recognition task achieving 73% accuracy.