

SUMMARY

I am a Deep Learning Engineer experienced in Computer Vision and with a broad knowledge of other domains.

WORKING EXPERIENCE

- **Internship and Master Thesis @ Bosch** Germany, *October 2023 - May 2024*
Trained various advancements of [NeRF's](#) architecture.
Created qualitative and quantitative analysis on the impact of various implemented image degradations on the resulting 3D reconstruction.
- **Working Student @ EDAG** Germany, *January 2023 - July 2023*
Automated labeling process of the collected dataset for the task of Object Detection.
Researched for best approaches, achieved map50-95 of 0.913 after fine-tuning [YOLO](#) models.
- **Research Assistant @ LUH** Germany, *December 2021 - January 2023*
Researched and implemented unsupervised models based on [VQ-VAE](#) and other (e.g.: [link](#), [link](#)) for the task of Anomaly Detection.

EDUCATION

- **Master at Leibniz University Hannover** Germany
Deep Learning 2021-2024
- **Bachelor at Martin Luther University** Germany
Informatics 2018-2021
 - **Bachelor Thesis:** Deep Learning for Locating Seed Placements in Images (PyTorch)
During my [Bachelor work](#) I have described the fundamentals of neural networks and created various pipelines for the task of Object Localization achieving F1-Score of 0.87.
 - **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:** We created pipelines for predicting the quality of arguments and retrieving them. We scored as Top-1 Uni-team and Top-7 overall in [Touché @ CLEF](#) as team 'Luke Skywalker' and described our approaches in [Paper](#)
- **Bachelor at Odessa State Environmental University** Ukraine
Computer Science 2017-2021
 - **Bachelor Thesis:** Precision-Oriented Argument Retrieval
I prepared text dataset and fine-tuned [BERT](#)-based model for precision-oriented argument retrieval and compared results using various retrieval models.

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), Ukrainian (native)