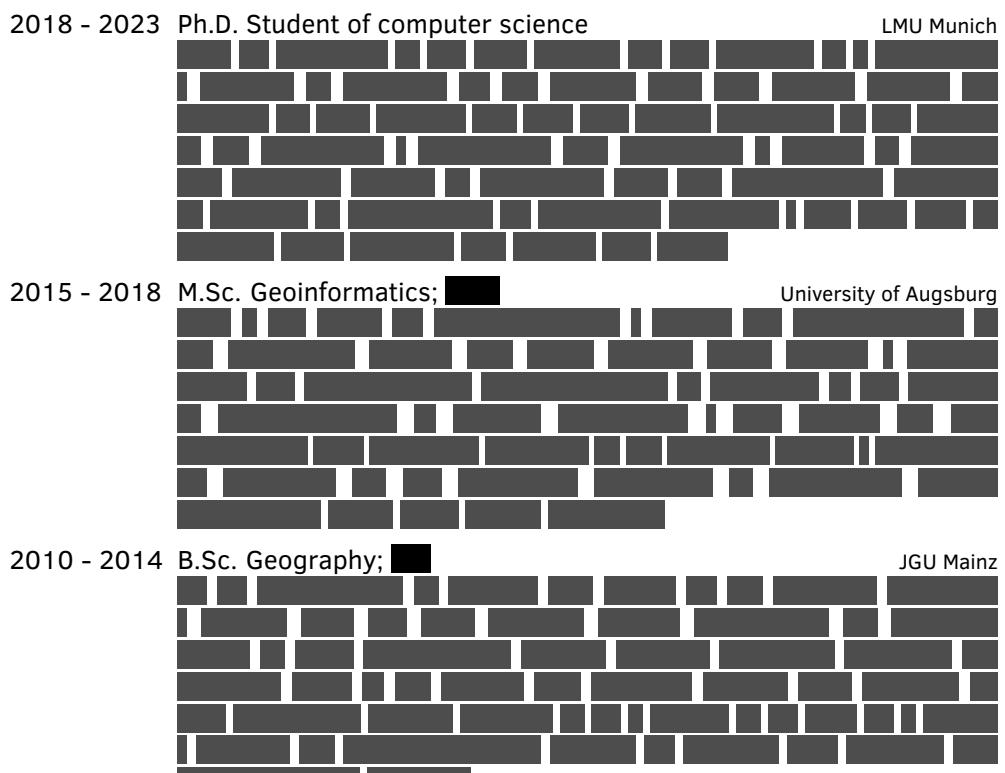




Resume

Being employed as a research assistant at the Ludwig Maximilian University of Munich allowed me to incorporate my personal interests, curiosity, and thirst for knowledge into a professional endeavor. You will find detailed information regarding my professional and personal experiences to date, which I have outlined below.

Education



Steffen Illium

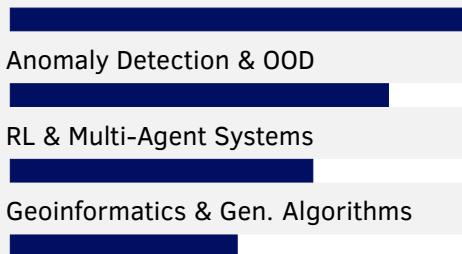
Machine Learning Expert Data Scientist



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illiumst

Fields of research

Machine Learning & Data Science

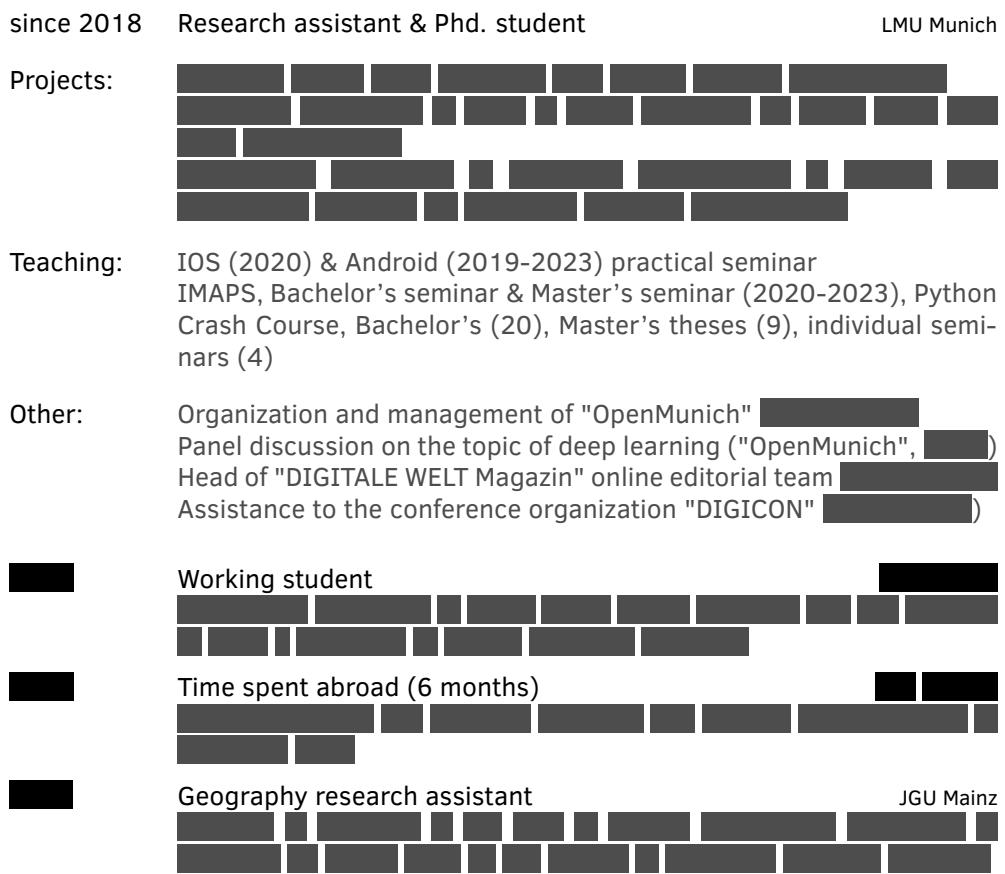


Scale: 0 (basic skills) - 6 (expert)

Softskills

Independent, Structured, Ready to learn, Self-reflective, Team player, quick comprehension, Organizational skills, Leadership skills, Curious, Innovative, Able to resolve conflicts

Professional experience and roles



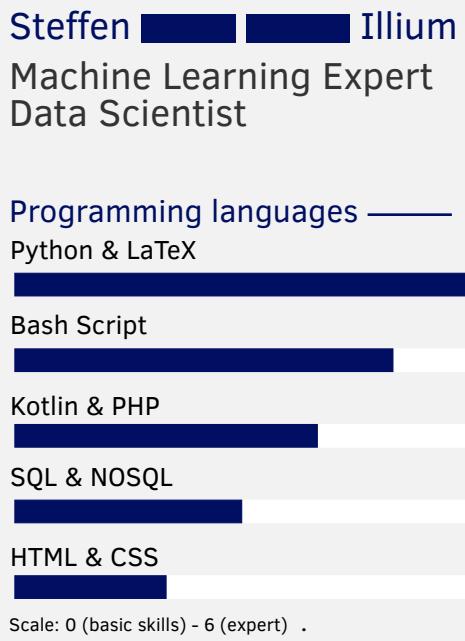
Publications

2024	<i>Aquarium: A Comprehensive Framework for Exploring Predator-Prey Dynamics through Multi-Agent Reinforcement Learning Algorithms</i>
2023	<i>Improving Primate Sounds Classification Using Binary Presorting for Deep Learning</i> <i>VoronoiPatches: Evaluating a New Data Augmentation Method</i> <i>Social Neural Network Soups with Surprise Minimization</i> <i>Compression of GPS Trajectories using Autoencoders</i>
2022	<i>Empirical Analysis of Limits for Memory Distance in Recurrent Neural Networks</i> <i>CSG Tree Extraction from 3D Point Clouds and Meshes Using a Hybrid Approach</i> <i>Constructing Organism Networks from Collaborative Self-Replicators Towards Anomaly Detection in Reinforcement Learning</i> <i>Case-Based Inverse Reinforcement Learning Using Temporal Coherence</i>
2021	<i>Visual Transformers for Primates Classification and Covid Detection</i> <i>Goals for Self-Replicating Neural Networks</i> <i>Acoustic Anomaly Detection for Machine Sounds based on Image Transfer Learning</i> <i>Deep and Recurrent Architecture for Primate Vocalization Classification</i> <i>Analysis of Feature Representations for Anomalous Sound Detection</i> <i>Acoustic Leak Detection in Water Networks</i>
2020	<i>What to do in the Meantime: A Service Coverage Analysis for Parked Autonomous Vehicles</i> <i>A Hybrid Approach for Segmenting and Fitting Solid Primitives to 3D Point Clouds</i> <i>Policy Entropy for Out-of-Distribution Classification</i> <i>Surgical Mask Detection with Convolutional Neural Networks and Data Augmentations on Spectrograms</i>
2019	<i>Deep Neural Baselines for Computational Paralinguistics</i> <i>Self-Replication in Neural Networks</i>
2018	<i>Trajectory annotation using sequences of spatial perception</i>

Auszeichnung

2023	Internat. Conf. on Agents and Artificial Intelligence (ICAART) - Best Poster Award
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Further information



Systems

Arch Linux, Debian Linux, Kubernetes, Windows, hypervisor

Software

PyTorch, Pandas, Shell, Docker, VS Code, IntelliJ, MS Office, Docker, WordPress, InkScape, WireGuard, ZFS

Language skills

German

English

