

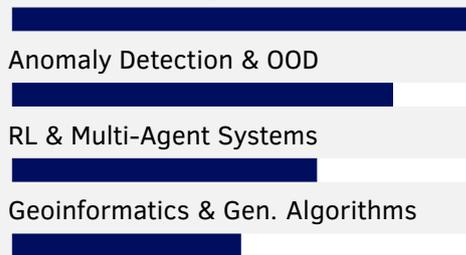


Steffen Illium
Machine Learning Expert
Data Scientist



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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

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

- 2018 - 2023 Ph.D. Student of computer science LMU Munich
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- 2015 - 2018 M.Sc. Geoinformatics; ██████████ University of Augsburg
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- 2010 - 2014 B.Sc. Geography; ██████████ JGU Mainz
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Professional experience and roles

- since 2018 Research assistant & Phd. student LMU Munich
- Projects: ██████████
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- Teaching: IOS (2020) & Android (2019-2023) practical seminar
IMAPS, Bachelor's seminar & Master's seminar (2020-2023), Python Crash Course, Bachelor's (20), Master's theses (9), individual seminars (4)
- Other: Organization and management of "OpenMunich" ██████████
Panel discussion on the topic of deep learning ("OpenMunich", ██████████)
Head of "DIGITALE WELT Magazin" online editorial team ██████████
Assistance to the conference organization "DIGICON" ██████████
- ██████████ Working student ██████████
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- ██████████ Time spent abroad (6 months) ██████████
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- ██████████ Geography research assistant JGU Mainz
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Publications

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

Auszeichnung

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

Further information

[REDACTED]

Steffen [REDACTED] Ilium

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Programming languages

Python & LaTeX



Bash Script



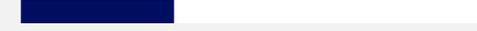
Kotlin & PHP



SQL & NOSQL



HTML & CSS



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

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



Hobbies & Interests

[REDACTED]