Fabian Karl

PhD-Candidate

Ulm University, Germany | fkarl.de | FKarl | fkarl
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EMPLOYMENT HISTORY

09/2024
Ulm, Germany
PhD-Candidate
Ulm University

2022 – 2024
Ulm, Germany
Student Research Assistant in Data Science
Ulm University

2021 – 2022
Ulm, Germany
Student Tutor
Ulm University

EDUCATION

2022 – 2024
Ulm, Germany
M.Sc. Computer Science
Ulm University
Grade: 1.2
Thesis title: Retrieval Augmented Information Extraction: Enhancing Language Models for Extracting Bibliographic Metadata from Heterogeneous Web Sources with CRAWLDoc.

2019 – 2022
Ulm, Germany
B.Sc. Computer Science
Ulm University
Grade: 1.3
Thesis title: Transformers are Short Text Classifiers: A Study of Inductive Short Text Classifiers on Benchmarks and Real-world Datasets.

2016 – 2019
Ehingen, Germany
German Abitur
Technisches-Gymnasium Ehingen
Grade: 1.2

LANGUAGES

German ●●●●●
English ●●●●○
French ●○○○○

RESEARCH PUBLICATIONS

2025
Crawldoc: A dataset for robust ranking of bibliographic documents
SCOLIA
F. Karl and A. Scherp, "Crawldoc: A dataset for robust ranking of bibliographic documents", SCOLIA@ECIR 2025.

2024
Continual Learning for Encoder-only Language Models via a Discrete Key-Value Bottleneck
arXiv e-prints
A. Diera, L. Galke, F. Karl, and A. Scherp, "Continual learning for encoder-only language models via a discrete key-value bottleneck" DOI: 10.48550/ARXIV.2412.08528. arXiv: 2412.08528.

2023 **GenCodeSearchNet: A benchmark test suite for evaluating generalization in programming language understanding**
Association for Computational Linguistics
A. Diera, A. Dahou, L. Galke, F. Karl, F. Sihler, and A. Scherp, "GenCodeSearchNet: A benchmark test suite for evaluating generalization in programming language understanding" GenBench Workshop, ACL 2023, DOI: 10.18653/v1/2023.genbench-1.2.

2022 **Are We Really Making Much Progress in Text Classification? A Comparative Review**
arXiv e-prints
L. Galke, A. Diera, B. X. Lin, et al., "Are We Really Making Much Progress in Text Classification? A Comparative Review" DOI: 10.8550/arXiv.220.0395. arXiv: 220.0395.

2022 **Transformers are Short-Text Classifiers**
Springer
F. Karl and A. Scherp, "Transformers are Short-Text Classifiers" CD-MAKE 2023, Springer, ISBN: 978-3-031-0836-6. DOI: 10.1007/978-3-031-0837-3_7.

INVITED TALKS

2023 **Transformers are short-text classifiers**
Presented for Ernst & Young (EY) Germany R&D.

CERTIFICATES

2025 **AI Agents Fundamentals**
Awarded by Hugging Face

2023 **Effective MLOps - Model Development**
Awarded by Weights & Biases.

CODING

- Python
- Java
- PyTorch
- Git
- Transformers
- LaTeX