

Tarek Akrouit

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EDUCATION

Technical University of Munich, M. Sc in Computer Science Oct 2024
Munich, Germany
Technical University of Berlin, B. Sc in Computer Science Oct 2021 – Sept 2024
Berlin, Germany
Bachelor thesis on Quantization-aware training for neural network (1,0)

EXPERIENCE

TU Berlin Apr 2024 – Oct 2024
Tutor and student assistant *Berlin, Germany*

- Guided students in solving assignments for the “Algorithms and Data Structures” course.
- Developed an automated exam generation and grading pipeline in Python for the “Python for Machine Learning” course.
- Assisted in organizing, and grading exams.

Siemens Mobility Jul 2022 – Oct 2023
Working student : Web developer *Berlin, Germany*

- Used web APIs to integrate data from different systems into our databases.
- Assisted in the design and architecture of databases.
- Created multiple KPI dashboards and produced user-friendly frontend views, including map displays and Gantt charts, to enhance data comprehension.

1&1 Telecommunication SE Jan 2022 – Jun 2022
Working student : Software developer *Berlin, Germany*

- Wrote YAML files and SQL queries in order to improve system monitoring and performance evaluation.
- Prepared Grafana dashboards for better data visualization.

PROJECTS (GITHUB)

ML: Quantization-aware training for VAEs and diffusion models, Neural Style Transfer, basic entity resolution pipeline.
Web development: Implementation of a Kanban board.
Computer Graphics: Shading and Texture mapping using glsl.

TECHNICAL SKILLS

Languages: Python, Java, C, C++, SQL, TypeScript, Haskell, Prolog.
Technologies: PyTorch, Numpy, Matplotlib, Git, Spark, Linux **and basics of** : Pandas, Vue.js, Express.js and Docker.

ONLINE COURSES

Convolutional Neural Networks | Jun 2021
Structuring Machine Learning Projects | May 2021
Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization | May 2021
Neural Networks and Deep Learning | Apr 2021

LANGUAGES

Arabic, French, English (C1), German (C1)