

Katharina Deckenbach

RESEARCH ENGINEER · MACHINE LEARNING

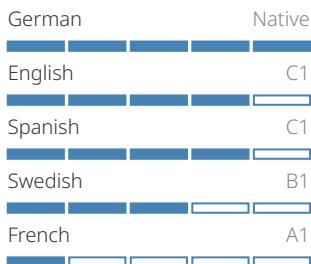
About me

Highly motivated and curious Machine Learning Master's graduate with a hard-working attitude. Excited about the potential of AI and driven by the goal of mitigating its risks to ensure future AI systems can be as beneficial as possible.

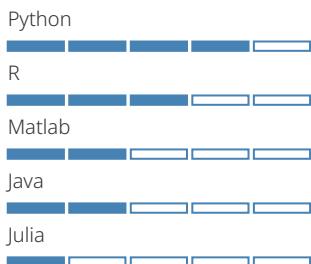
Contact

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 kaethy
 katharina-deckenbach
 nBGXSEAAAAJ

Languages



Programming



Other Skills



EDUCATION

08/23 - 06/25 **M.Sc. Machine Learning**

KTH ROYAL INSTITUTE OF TECHNOLOGY

 STOCKHOLM, SWEDEN

Thesis: "Improving the Laplace Posterior Approximation via Sharpness-Aware Minimization".

09/21 - 03/22 **Erasmus Semester**

UNIVERSIDAD POMPEU FABRA

 BARCELONA, SPAIN

10/19 - 03/23 **B.Sc. Cognitive Science**

UNIVERSITY OF TÜBINGEN

 TÜBINGEN, GERMANY

Thesis: "Are People Confident When Artificial Neural Networks Are Confident?".

EXPERIENCE

11/25 - present **Research Intern**

MAX PLANCK INSTITUTE FOR INTELLIGENT SYSTEMS

 TÜBINGEN, GERMANY

- Research Internship with Sahar Abdelnabi's COMPASS group

07/25 - 10/25 **Research Engineer**

KTH ROYAL INSTITUTE OF TECHNOLOGY

 STOCKHOLM, SWEDEN

- Continued my thesis work on improving posterior approximation methods
- Trained and evaluated models (e.g., ResNet, ViT, BERT) in PyTorch, using Laplace Approximation and SWAG

2025 **Participant**

ML4GOOD AND ARBOx

 STRASBOURG, FRANCE AND OXFORD, UK

- Two 10-day in-person bootcamps to up-skill in AI safety
- Topics covered training ResNet and GPT-2 from scratch, RLHF, reasoning models, mechanistic interpretability, adversarial attacks, frontier model evaluations, reinforcement learning, steering vectors

04/22 - 07/22 **Teaching Assistant**

UNIVERSITY OF TÜBINGEN

 TÜBINGEN, GERMANY

- The course taught by Prof. Martin Butz covered various topics within ML and Cognitive Sciences such as Reinforcement Learning and Evolutionary Algorithms
- Held a weekly tutorial session, created learning material for students and helped with exam correction

SCHOLARSHIP

12/20 - 03/22 **Deutschlandstipendium**

Public-private German Scholarship

ENGAGEMENT

08/23 - 06/25 **Co-Organizer Stockholm AI Safety**

- Organized biweekly meetings and a discussion group

08/23 - 06/25 **Treasurer Effective Altruism KTH**

09/18 - 08/19 **Voluntary Social Year**

PUBLICATIONS

- 2025 E. Banzuzi, D. J. Khodaverdian, and **K. Deckenbach**, "A Reproducibility Study of Decoupling Feature Extraction and Classification Layers for Calibrated Neural Networks", *Transactions on Machine Learning Research* June-2025, 2025.