

Eduard Hübner

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WORK EXPERIENCE

Technical University Berlin | *Teaching Assistant, Theoretical Computer Science* **Since June 2023**

- Currently teaching "Introduction to Machine Learning"
- Previously taught "Formal Languages and Automata", "Computability and Complexity", and "Discrete Mathematics"
- Explaining complex theoretical and applied ML concepts to students, evaluating exams and assignments

Merantix, Berlin | *Working student, Editor for AI and Business* **Since 2022**

- Writing articles and whitepapers on applied AI research for non-technical audiences
- Researching ML use cases across industries (Finance, Health, Manufacturing, Legal)
- Communicating AI concepts in accessible business language

German Parliament, Berlin | *Intern, Technology Politics* **January – February 2020**

- Study Commission on Artificial Intelligence participant
- Wrote briefings on emerging technologies

EDUCATION

Technical University Berlin | *MSc Computer Science* **2025 – ongoing**

- Current Coursework: Deep Learning, Adversarial Machine Learning, Responsible AI (Explainable AI), Bayesian Inference

Technical University Berlin | *BSc Computer Science* **2022 – 2026 (expected)**

- **Bachelor Thesis:** Detecting and scoring polysemanticity in Large Language Models for Mechanistic Interpretability.
- Relevant Coursework: Machine Learning for Computer Security (1.7, Master level), Artificial Intelligence (1.3), Data Science for Computer Scientists (2.0, Master level), Machine Intelligence I (2.3, Master level), Machine Intelligence II (2.7, Master level)
- Focus on Theoretical Computer Science and Artificial Intelligence
- Developed a microservices-based social network in team project
- Developed machine learning-based intrusion detection system using Random Forest, SVM, and PyTorch neural networks

Humboldt University Berlin | *BSc Philosophy and Economics* **2017 – 2022**

- Focus on Logic and Philosophy of Languages
- Focus on Ethics and Metaethics
- Thesis on topics in Social Epistemology

- GPA 1.6 (Germany)

University of Edinburgh | *Visiting Scholar in Philosophy and Computer Science* **2019**
 • Focus on Logic, Cognition and Discrete Mathematics

Humboldt-Schule Kiel | *A levels (Abitur)* **2015**
 • GPA 1.5 (Germany)

HONORS

Friedrich Naumann Foundation | *Merit-based Scholarship* **2016 – 2021**
 • Awarded for outstanding academic potential
 • Full academic scholarship supporting studies at multiple institutions

Erasmus+ Programme | *Study Abroad Scholarship* **2019**
 • Scholarship for studies at the University of Edinburgh

TECHNICAL SKILLS

Programming Languages | Python, Java (basics), C (basics)

Data Science | Pandas, Scikit-learn, Seaborn, Data Cleaning and Integration, EDA, Cross-validation

Machine Learning | Supervised Learning (SVM, Logistic Regression, Random Forests), Unsupervised Learning (K-means, PCA, ICA), Neural Networks, Anomaly Detection, Adversarial ML, PyTorch, Deep Learning

Interpretability & Safety | Mechanistic Interpretability, Explainable AI (XAI)

Theoretical Foundations | Algorithm Design, Complexity Theory, Formal Methods, Logic

Tools & Technologies | PyTorch, Docker, Jupyter Notebooks, Git, Shell Scripting