Anton Matsson

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About Me

I am a final-year PhD candidate in machine learning at Chalmers University of Technology, specializing in interpretable machine learning for modeling and evaluating clinical decision making. Graduating in summer 2025, I'm excited to bring my expertise in machine learning and data analysis to an industry role. My goal is to contribute to the development and deployment of robust, human-centered AI systems that drive meaningful impact in real-world applications.

Education

PhD **Chalmers University of Technology**, Computer Science & Engineering — 09/20 to 08/25

- Led multiple research projects in collaboration with academic and industry partners, resulting in four peer-reviewed publications in prominent conference proceedings and journals.
- Supervised several successful thesis projects at both bachelor's and master's levels, covering academic research and industry collaborations.
- Served as a teaching assistant for multiple courses in machine learning, mathematical modeling, and data science.
- Completed advanced courses in natural language processing, distributed machine learning, deep generative models, reinforcement learning, and causal inference, building a strong foundation in state-of-the-art AI/ML.

MSc **Chalmers University of Technology**, Engineering Physics — 09/15 to 06/20

- GPA: 4.7/5.0.
- Thesis (in collaboration with Smartr): *Predicting Customer Behavior Using Adversarial Imitation Learning*.

Experience

Berkeley Lab, Research Intern — Berkeley, USA, 01/19 to 07/19

- Collaborated with Dr. Jeroen van Tilborg's research team on the development of a laser-driven free-electron laser during a six-month internship.
- Implemented software for data analysis of experimental results, developed device drivers for experimental systems, and conducted simulations to investigate the use of coherent undulator radiation for electron bunch length diagnostics.

Gapwaves AB, Design Engineer — Gothenburg, SWE, 06/18 to 08/19

- Worked with automotive radar antenna systems during summer breaks and part-time throughout the fall 2018 semester.
- Implemented a computer model to investigate the effects of thermal expansion on automotive antennas, maintained software to control the antenna measurement procedure, and automated the reporting of measurement results.

Projects

Visit my personal website for a detailed overview of my research projects and publications.

Technologies

Languages: Python, Java, Scala, C++, Matlab

Tools: Git, Slurm, Apptainer/Singularity, PyTorch, TensorFlow, Apache Spark, pandas, scikit-learn, HuggingFace