Anton Matsson

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About Me

I am a final-year PhD candidate in machine learning at Chalmers University of Technology. My research focuses on various aspects of clinical decision-making, including interpretability, causal inference, and reinforcement learning. With my PhD defense scheduled for August 27, I am excited to transition into an industry role. I would like to apply my expertise in machine learning and data science to develop and deploy robust AI systems that drive real-world impact.

Education

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

- Led and contributed to multiple research projects in collaboration with academic and industry partners, resulting in several preprints and four peer-reviewed publications in leading conferences 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: PyTorch, TensorFlow, HuggingFace, Apache Spark, pandas, scikit-learn, Git, Slurm, Apptainer/Singularity