Anton Matsson, PhD

Stockholm | antmats94@gmail.com | 070-644 10 83 | antonmatsson | Google Scholar

About Me

I am a machine learning researcher and engineer with a PhD from Chalmers University of Technology, where my work explored how machine learning can support decision-making in healthcare. I have a strong foundation in classical machine learning and hands-on experience with state-of-the-art generative AI, including large language models. Available to start on short notice, I am ready to apply my expertise in machine learning and data analysis to build production-ready AI systems that deliver real-world impact.

Education

PhD **Chalmers University of Technology**, Computer Science & Engineering — Sept 2020 – Aug 2025

- Contributed to multiple research projects in collaboration with academic and industry partners, resulting in 5+ preprints and peer-reviewed publications in leading conferences and journals.
- Supervised several bachelor's and master's theses across academic and industry projects.
- Served as a teaching assistant for multiple courses in machine learning and data science.
- Completed advanced courses in natural language processing, distributed machine learning, deep generative models, reinforcement learning, and causal inference.
- Thesis: *Interpretable machine learning for modeling, evaluating, and refining clinical decision-making*.

MSc **Chalmers University of Technology**, Engineering Physics — Sept 2015 – June 2020

- Thesis: *Predicting customer behavior using adversarial imitation learning*.

Projects

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

Experience

Research Intern, Berkeley Lab – Berkeley, USA — Jan 2019 – July 2019

- 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.

Design Engineer, Gapwaves AB – Gothenburg, SWE — June 2018 – Aug 2019

- 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.

Technologies

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

Tools: PyTorch, TensorFlow, Hugging Face, Apache Spark, pandas, scikit-learn, Git, Slurm, Singularity