Dan Edelstein

Valdemar Holmers Gade 48, 2 – København, Denmark
s243446@dtu.dk +372.5301.2475 danedelste.in

Professional Summary

Versatile AI researcher and engineer with a strong foundation in machine learning theory and implementation across multiple domains. Background in computer vision and autonomous systems provides transferable expertise applicable to various AI research areas including natural language processing, reinforcement learning, and multimodal systems. Published researcher with cross-disciplinary technical skills and international experience across Northern Europe. Experienced in developing production-level software systems and integrating novel technologies.

Education

DTU (Technical University of Denmark) **Copenhagen, Denmark**
MSc in Human-Centered Artificial Intelligence, Honors; Current GPA: 11/12 *Autumn 2024 - Spring 2026*

- **Relevant Coursework:** Bayesian Machine Learning, Advanced Deep Learning in Computer Vision
- **Projects:** Robust memorization-free diffusion models Demo

TalTech (Tallinna Tehnikaülikool) **Tallinn, Estonia**
BSc in Integrated Engineering, Cum Laude, GPA: 4.9/5 *Autumn 2021 - Summer 2024*

- **Thesis:** "Investigation into suitability of millimeter-wave radars for perception on a mobile robotics platform" - Grade: 5.0/5.0
- **Awards:** Cum Laude, XRP Ledger Trust Stipendium Grantee

Aalto University **Helsinki, Finland**
Erasmus, GPA: 4.9/5 *Autumn 2023 - Summer 2024*

- **Key Courses:** Autonomous Mobile Robotics (MSc), Smart Forestry Robotics (MSc)
- **Projects:** Touch-keyboard sidechannel attack: modelling touch input via inertial multivariate time series

Work Experience

Logoteknia Oy **Helsinki, FI**
NLP/AI Backend Engineer – Contract, Fully Remote *May 2025 - Ongoing*

- Engineering containerized API for custom multilingual NMT models with automated evaluation pipelines and CI/CD integration
- Building domain-specific Finnish corpora and custom OCR-to-translation pipelines for low-resource language pairs

TalTech Autonomous Vehicles Research Group **Tallinn, Estonia**
Autonomous Mobility Perception Researcher *Feb 2024 - Aug 2024*

- Developed a sensor fusion pipeline that integrates emerging sensor modalities with traditional perception systems, leveraging advanced tooling to elevate autonomous navigation.
- Tech Stack: C++, Python, Robot Operating System (ROS), Docker

Ericsson **Tallinn, Estonia**
Test Development Digital Software Engineer *June 2022 - March 2023*

- Built full-stack internal tool adopted by 100+ engineers for daily use
- Automated testing and CI/CD processes, cutting test execution time by 12%.
- Tech Stack: C#, Next.js, PostgreSQL, MSSQL, Internal Tooling

Teaching

Quantitative Sustainability 1210X **Copenhagen, Denmark**
MSc Teaching Assistant *Jan 2025 - May 2025*

- 4 hours/week of in-person teaching for multi-dimensional sustainability-focused data modeling MSc course

Facilitating Innovation in Multidisciplinary Teams **Copenhagen, Denmark**
Engineering Team Project Manager *June 2025*

- Intensive course on guiding and coordinating engineering teams in the Agile model

Publications

Sensor Test Bench for Autonomous Vehicle Engineering Education
Baltic Mechatronics Symposium 2024
***Dan Edelstein**, Joona Päivärinne, Pyry Weckman, Oskari Jutila, et al.*

Millimeter-Wave Radar Applications in Autonomous Object Detection
Baltic Electronics Conference 2024
*Toomas Tahves, **Dan Edelstein**, Mauro Bellone, Raivo Sell*

Technical Skills

- **Programming Languages & Frameworks**
  - **AI & Machine Learning**: Python (PyTorch, NumPy, Pandas, JAX, OpenCV, HPC/Distributed), PyMC
  - **Backend & Development**: Javascript/Next.js, Flask, C#, Docker, CI/CD, PostgreSQL, Git
  - **Additional Languages**: C, C++, ROS (1&2), MATLAB, Prolog, Bash, English (Fluent), French (Intermediate), Estonian (Improving), Danish (Basic)
- **Technical Competencies**
  - Bayesian machine learning, statistical inference
  - AI-based perception systems, Natural Language Processing, AI in Production
  - Software systems design, performance optimization, ROS-based robotics
- **Languages**: English (Fluent), French (Intermediate), Estonian (Improving), Danish (Basic)

Interdisciplinary Interests and Activities

Experimental Video Art, Sculptural Mechatronics *2015 - Present*
Exhibits: Esther Art Fair - NYC; NSFW - Göteborg SE; Dom Galerija - Riga LV; EKA Galerii - Tallinn EE