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| <div>Dan Edelstein</div> <div>Valdemar Holmers Gade 48, 2 – København, Denmark</div> <div>✉ s243446@dtu.dk ☎ +372.5301.2475 ➤ danedelste.in</div> | |
| Professional Summary | |
| Versatile AI Engineer and Researcher specializing in Bayesian Machine Learning , NLP , and Deep Learning . Combines a Cum Laude engineering background with advanced MSc expertise in probabilistic modeling and computational theory. Experienced in bridging the gap between rigorous research and production-grade MLOps, with a focus on scalable, data-intensive systems. International experience across Northern Europe (DTU, Aalto, TalTech) delivering high-performance software and published technical research. | |
| Education | |
| <div>DTU (Technical University of Denmark)</div> <div>Honors MSc in Human-Centered Artificial Intelligence; GPA: 10.1/12</div> <div><ul style="list-style-type: none">Relevant Coursework: Bayesian Machine Learning, Advanced Deep Learning for Computer Vision, Learning Theory, Logical Theories for Uncertainty, Social GraphsProjects: Hierarchical user-interest modeling for news recommendation, Robust memorization-free diffusion models Demo</div> | <div>Copenhagen, Denmark</div> <div>Autumn 2024 - Spring 2026</div> |
| <div>TalTech (Tallinna Tehnikaülikool)</div> <div>BSc in Integrated Engineering, Cum Laude, GPA: 4.9/5</div> <div><ul style="list-style-type: none">Thesis: "Investigation into suitability of millimeter-wave radars for perception on a mobile robotics platform" - Grade: 5.0/5.0Awards: Cum Laude, XRP Ledger Trust Stipendium Grantee</div> | <div>Tallinn, Estonia</div> <div>Autumn 2021 - Summer 2024</div> |
| <div>Aalto University</div> <div>Erasmus, GPA: 4.9/5</div> <div><ul style="list-style-type: none">Key Courses: Autonomous Mobile Robotics (MSc), Smart Forestry Robotics (MSc)Projects: Touch-keyboard sidechannel attack: modeling touch input via inertial multivariate time series</div> | <div>Helsinki, Finland</div> <div>Autumn 2023 - Summer 2024</div> |
| Work Experience | |
| <div>Hafnium Investment</div> <div>AI Engineer (Internship)</div> <div><ul style="list-style-type: none">Engineering high-performance, containerized microservices for semantic analysis and large-scale organization of unstructured data streams in productionDeveloping Bayesian statistical models and embedding-based pipelines to improve signal detection and classification accuracy in automated workflowsBuilding evaluation frameworks and benchmarking protocols to validate model performance and reliability against edge casesTech Stack: Python, Docker, gRPC, NLP (Embeddings), Statistical Modeling, Asynchronous Systems</div> | <div>Copenhagen, Denmark</div> <div>Jan 2026 – Ongoing</div> |
| <div>Logoteknia Oy</div> <div>NLP MLOps Engineer – Contract, Fully Remote</div> <div><ul style="list-style-type: none">Architected a production MLOps evaluation platform on Azure to drive statistically robust, cost-aware selection of machine translation models.Instituted multi-batch evaluation methods leveraging Bayesian inference to quantitatively rank models, enabling optimal cost-per-quality routing.Engineered async microservices architecture (FastAPI, Celery) and integrated dynamic model resolution via Azure ML Registry.Implemented rigorous validation protocols for corpus construction to mitigate training set contamination from heterogeneous sources.Tech Stack: Python (FastAPI, PyMC), Azure (Container Apps, ML Workspace), PostgreSQL, Docker, MLflow.</div> | <div>Helsinki, Finland</div> <div>May 2025 - Ongoing</div> |
| <div>TalTech Autonomous Vehicles Research Group</div> <div>Perception Researcher (Signal Processing & Vision)</div> <div><ul style="list-style-type: none">Developed signal processing pipelines to integrate sparse radar data with traditional vision systems, improving detection robustness.Tech Stack: Python, C++, ROS, Sensor Fusion, Data Analysis</div> | <div>Tallinn, Estonia</div> <div>Feb 2024 - Aug 2024</div> |
| <div>Ericsson</div> <div>Test Development Digital Software Engineer</div> <div><ul style="list-style-type: none">Built full-stack internal tool adopted by 100+ engineers for daily useAutomated testing and CI/CD processes, cutting test execution time by 12%.Tech Stack: C#, Next.js, PostgreSQL, MSSQL, Internal Tooling</div> | <div>Tallinn, Estonia</div> <div>June 2022 - March 2023</div> |
| Teaching | |
| <div>Deep Learning</div> <div>MSc Teaching Assistant</div> <div><ul style="list-style-type: none">4 hours/week of in-person teaching for Deep Learning MSc course</div> | <div>Copenhagen, Denmark</div> <div>Sep 2025 - Dec 2025</div> |
| <div>Quantitative Sustainability 1210X</div> <div>MSc Teaching Assistant</div> <div><ul style="list-style-type: none">8 hours/week of in-person teaching for sustainability-focused data modeling MSc course</div> | <div>Copenhagen, Denmark</div> <div>Jan 2025 - May 2025</div> |
| <div>Facilitating Innovation in Multidisciplinary Teams</div> <div>Engineering Team Project Manager</div> <div><ul style="list-style-type: none">Intensive course on guiding and coordinating engineering teams in the Agile model</div> | <div>Copenhagen, Denmark</div> <div>June 2025</div> |
| Publications | |
| <div>Sensor Test Bench for Autonomous Vehicle Engineering Education</div> <div>Baltic Mechatronics Symposium 2024</div> <div><i>Dan Edelstein, Joonas Päävärinne, Piry Weckman, Oskari Jutila, et al.</i></div> | |
| <div>Millimeter-Wave Radar Applications in Autonomous Object Detection</div> <div>Baltic Electronics Conference 2024</div> <div><i>Toomas Tahves, Dan Edelstein, Mauro Bellone, Raivo Sell</i></div> | |
| Technical Skills | |
| <ul style="list-style-type: none">Programming Languages & Frameworks<ul style="list-style-type: none">AI & Data Science: Python (PyTorch, NumPy, Pandas, JAX, OpenCV, networkx)Backend & MLOps: gRPC, FastAPI, Celery, Pydantic, Docker, MLflow, PostgreSQL, Redis, Git, asyncio/httpxCloud: Microsoft Azure (Container Apps, ML Workspace, RBAC)Additional: C++, C, ROS (1&2), Javascript/Next.js, MATLAB, BashTechnical Competencies<ul style="list-style-type: none">MLOps & Production AI: Cloud-native system architecture, containerization (Docker), experiment tracking (MLflow), and performance optimization for production AI systems.Statistical Model Evaluation: Bayesian inference for quantitative analysis, corpus construction, and validation protocols to ensure empirical assessment.Core AI/ML: Deep Learning (PyTorch), Bayesian Modelling, Natural Language Processing, Computer Vision (OpenCV), and Autonomous Systems (ROS).Human Languages: English (Fluent), French (Intermediate), Estonian (Improving), Danish (Basic) | |
| Interdisciplinary Interests and Activities | |
| <div>Experimental Video Art, Sculptural Mechatronics</div> <div>Exhibits: Esther Art Fair - NYC; NSFW - Göteborg SE; Dom Galerija - Riga LV; EKA Galerii - Tallinn EE</div> | |
| 2015 - Present | |