

Ivar Cashin Eriksson

Curriculum Vitae

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Introduction

I am an curious Data Scientist with 6 years of experience applying ML across many industries. I have previous experience as a data science researcher building computer vision models in radiotherapy for cancer treatment. I have a strong mathematical background and perfect GPA. After some time in industry, I am excited to return to academia to further my learning and contribute to AI research.

Selected Work Experience

Researcher within Data Science @ RaySearch Laboratories

- Designed a 3D computer-vision pipeline for automated cancer treatment.
- Built lexicographic dose-optimisation for palliative care. Continuously validated with clinicians.

Keywords: 3D computer vision, uncertainty quantification, probabilistic modelling, latent representation, segmentation, autoencoders, optimisation, healthcare AI

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Principal Data Scientist @ Valcon

- Led design and development of a real-time multi-modal ML pipeline deployed using Azure ML.
- Mentored junior colleagues and held trainings in xAI and Git.
- Won “People’s Choice Award” for exemplary work, leadership, team spirit, and curiosity.

Keywords: Real-time ML, NLP, explainability in AI, MLOps, multi-modal, Azure, Docker, mentoring, stakeholder management

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Education

2015–2020 **Royal Institute of Technology, KTH – Data Science and Engineering**, GPA: 5.0 (out of 5.0)
Master: Statistical Learning and Data Analytics, Bachelor: Engineering Physics. [See thesis.](#)

2017–2022 **Stockholm University, SU - Economics, Supplementary Bachelor’s Degree**

2019–2019 **Swiss Federal Institute of Technology, ETH - Applied Mathematics, Exchange**

Solo Side Project

Developing an end-to-end CV system to improve e-commerce navigation by making product images interactive. Works by creating embeddings of products to make them searchable across the webshop.

- Web scraping pipeline to dynamically index all items on a webshop.
- Object detection and classification using YOLOv8 and OpenClip to extract all items.
- Chromium plugin to display interactive links, improving user navigation.

Keywords: Computer vision, object detection, segmentation, semantic embedding, full-stack ML engineering, fine-tuning, web scraping

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Skills and Other

Technology Python (PyTorch, TensorFlow, SHAP, YOLO, OpenClip), MS Azure (Data Science Associate Certified), Databricks, AWS, MongoDB, Qdrant, Docker, 3D Printing, Fusion 360.

Language *Native:* English, Swedish. *Intermediate:* Danish.

Personal In my spare time I enjoy working on projects, such as designing and building furniture.

Other Member of Mensa Sweden.

Detailed Work Experience

2024–**Data Scientist and Project Manager, Signum Life Science, Copenhagen**

Present At Signum, I lead development on Kwarts, a next-best-action engine for pharmaceutical sales. I have extended the system with explainable AI features, supported its commercialisation, and ensured scalability on AWS. I also maintain our pharmaceutical price forecasting model for Denmark's biweekly auctions. In addition, I organised a week-long internal hackathon with 40 participants, which fostered innovation and produced several new prototypes.

2022–2024 **Principal Data Scientist, Valcon, Copenhagen**

Led data science projects across pharma, energy, IoT, and manufacturing, while mentoring colleagues and shaping internal practices through xAI and Git trainings. I regularly presented to non-technical stakeholders, strengthening my ability to translate complex ideas clearly. As lead data scientist, I designed and deployed a real-time deep neural network with a custom training pipeline for a challenging natural-language, multi-label prediction task. I received the "Valcon People's Choice Award" for exemplary work, leadership, and scientific curiosity.

2021–2022 **Data Scientist, Valtech, Copenhagen**

2019–2021 **Researcher within Data Science, RaySearch Laboratories, Stockholm**

At RaySearch Laboratories, I worked on automating radiotherapy planning using deep learning, probabilistic modelling, and multi-objective optimisation. I built a pipeline that extracted anatomical features from 3D CT scans with autoencoders, identified similar patients, and predicted dose distributions with sparse Gaussian processes, enabling personalised, data-driven treatment planning. I also redesigned lexicographic optimisation algorithms to better reflect clinical decision hierarchies, collaborating closely with physicists and oncologists to ensure clinical relevance.

Other Detailed Experience

2025-Present **Solo Project, Project iris**

In this personal project I am building an end-to-end computer vision system that makes e-commerce product images interactive. Using YOLOv8 and OpenCLIP, the pipeline detects and embeds items to enable intelligent product linking. It includes a FastAPI backend, MongoDB, Qdrant for vector search, and a custom Chromium plug-in that overlays clickable links on images in real time. The project has been a valuable exercise in fine-tuning deep learning models and full-stack ML engineering.