

DUARTE O.CARMO

Based in Copenhagen Denmark, available Globally
Last updated: September 2025

Website: duarteocarmo.com
Email: me@duarteocarmo.com
[LinkedIn](#) - [GitHub](#)

EXPERIENCE

- 2022 [DOC Technology](#), Consultant - AI/ML & Software Engineering - Denmark
Helping startups and established companies solving challenging problems using Machine Learning, Data, and Software Engineering
- Planned, designed and led drug adverse event and compliance detection LLM based system allowing a cut in risk review times of 50%
 - LLM/ML lead engineer for Pharma client: created LLM agent that automates dev. support, data pipeline incidents, and code reviews
 - Key technical advisor: Danish startup in LLM/Privacy space, Danish Pharma/Cosmetics startup, Brazilian Legal Tech startup
 - Scaled LLM-powered insights dashboard from 100 to 20K global users, driving pharmaceutical sales team efficiency worldwide
 - Grew and mentored cross-functional team from 2 to 15 people at Fortune 500 pharma client (mentoring, leading, hiring)
 - Helped the infrastructure team of a multinational Pharmaceutical company migrate its infrastructure to IaC w. AWS CDK
 - Built the first version of a probabilistic soil carbon model, validated against established methods, built satellite based data pipelines
 - Engineered automated farm stratification and core allocation system, cutting time to process a single client by 50%
 - Lead benchmarking exercise for several satellite based carbon stock models, allowing client to gain clarity on competitive landscape
 - Spearheaded R&D for SOTA carbon stock segmentation model using Satellite Imagery for UK-based climate tech startup
 - Built LLM-powered text interface for an AR product configurator in 3 weeks resulting in an even more personalized experience
 - Developed the API for a multi-modal search engine (12 NLP/Audio/Video models) to facilitate internal resource search for employees
 - Mentee feedback: *"I would not be so excited about learning so many different technologies if it were not for Duarte's example"*
 - Used SOTA LLMs to build a system allowing SDRs to create hyper personalized sales emails based on LinkedIn activity with a single click
 - Created four end-to-end NLP models to categorize 50M+ people and 20M+ companies for lead prospecting purposes (<5 months)
 - Built a large-scale end-to-end data pipeline to analyze text from millions of companies for ESG reporting for a startup based in Belgium
 - Created an efficient similarity search engine for over 200K pharmaceutical drugs for a Denmark-based startup
 - Lead a team of two through the development of 6 end-to-end ML pipelines with over 1,000 daily active users for SF based scaleup
- 2021 [DSB – Danske Statsbaner](#), Machine Learning Engineer - Denmark
Largest train operating company in Scandinavia. DSB has more than 195 Million passengers every year
- Designed foundation for "ATLAS": data management framework allowing automated ingestion of large amounts of data
 - Built and deployed application that analyzes incidents in railway network, responding to questions from executive board
 - Designed and delivered Machine Learning and AI Strategy for 2024 - approved by C-level management and board
- 2020 [Boston Consulting Group](#), Technology Consultant/Architect – Denmark
Unit within the Boston Consulting Group focusing on Technology. BCG delivered 8.5 Billion USD revenue in 2019
- Lead the analysis of IT infrastructure of a major scandinavian financial institution uncovering +30m USD in potential savings
 - Created 4 mathematical models for migrating critical on-site infrastructure to Public Cloud, using data analysis and Big data tools
 - Developed the Cloud adoption Strategy (e.g., AWS, GCP) that paved way for Cloud adoption in a major nordic financial institution
- 2017-2020 [Jabra – GN Audio](#), Product Manager, Digital Consultant, and Student Analyst in Strategy – Denmark
The fastest growing company in the global professional headset market. 900 Million USD revenue in 2019, with 26% growth
- Coordinated Data and Research in development of an AI based software product, lead pilot in USA office (40+ users)
 - Received a manager assessment of 5/5: "Continually receives outstanding feedback from subordinates, peers and customers"
 - Responsible for all areas (engineering, sales, R&D, biz dev.) of 2 products, 16.000 and 300.000 units sold accordingly in 6 months
 - Assisted top management in strategic analyses for M&A activities. Responsible for quarterly board presentation
 - Reported to the VP of Strategy and Consumer Business as a student assistant in the Strategy Dept.
 - Built 5 internal automation tools used by +30 people. By using them, each executive saved more than 4 hours a month
- 2015 – 2017 [WYGroup](#), Resident Entrepreneur (Portugal) and Intern (USA)
WYGroup is one of the leading players for digital marketing and technology services in Portugal, and has been for the last 16 years
- Co-Founder and creator of eGuru. A start-up that focuses on crowdsourced deliveries and that raised 150K in funding
 - Interned in Boston w. [Bliss Applications](#) and drove projects for clients in areas of Health, Entertainment, and Social Media

LEADERSHIP/SPEAKING

- Guest lecturer for the [DTU MLOps course](#) and [DIS University](#) in topics such as MLOps, Machine Learning, and Data Science
- 10+ conference talks in conferences related to Data/ML/Software across Europe; Appearance in multiple podcast interviews ([talks](#))
- [Writer](#) with avg. 2K/month pageviews. [Newsletter](#) author with 50+ published issues.
- Lead workshop focused on pioneering Chinese Large Language Model DeepSeek for Packt Publishing
- Reviewer & author for leading technology publications such as Manning and Pack

SKILLS

- Software: Python, Go, Rust, Javascript, C++. OOP, TDD, Low Latency, Distributed systems, Data Intensive Applications
- Experience with LLMs, ML/Data Pipelines, Satellite Imagery, Data Science/Machine Learning/Deep Learning, MLOps
- Very familiar with Git, Linux, Fast API, Django, Node.js, PostgreSQL, Async, Docker, CI, AWS, GCP, Azure, Vector DB
- Native in Portuguese. Fluent in English, French, and Italian. Very good in Spanish. Very basic Chinese

EDUCATION

- Master in Engineering and Management from the [Technical University of Denmark](#) (final grade of 10/12 - 4.0 GPA)
- [Thesis](#): "The uniqueness of technological capabilities: a data-driven network exploration", grade of 12/12 ([Paper published](#))
- Electrical engineering studies in the [Beijing Institute of Technology](#) (Digital Logic Circuits, CPU, Computer Controlled Systems)
- Bachelor in Engineering Sciences from the [Instituto Superior Tecnico](#) (top 30% of class - 19/20 in Computer and Programming)

HOBBIES

- Visited over 83 different countries in the world; Marathon runner, 10 marathons and 10 half-marathons ran