

DUARTE O.CARMO

Based in Copenhagen, Denmark - available globally
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EXPERIENCE

2022-Present

[DOC Technology](#), Consultant - AI/ML & Software Engineering - Denmark

Helping startups and established companies solve challenging problems using machine learning, data, and software

- Led replacement of high-volume proprietary TTS pipeline with an open-source alternative in under 2 months, reducing costs by 60%+
- Planned, designed, and led LLM-based drug adverse event and compliance detection system, reducing risk review times by 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 first version of probabilistic soil carbon model, validated against established methods, and built satellite-based data pipelines
- Engineered automated farm stratification and core allocation system, cutting time to process a single client by 50%
- Led benchmarking exercise for several satellite-based carbon stock models, giving client 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
- 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
- Led 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

2021-2022

[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

2020-2021

[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

- Led 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, led 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

- Co-authored [DeepSeek in Practice](#) with [Packt](#) - a book covering building, deploying, and evaluating LLM applications with DeepSeek
- Delivered 10+ [talks](#) in conferences related to Data/ML/Software across Europe; (incl. PyData, AWS Data Day, EuroSciPy)
- Author of a technical blog with ~45K monthly unique visitors; [newsletter](#) with 50+ published issues; appearance in various podcasts
- Guest lecturer for the [DTU MLOps course](#) and [DIS University](#) in topics such as MLOps, Machine Learning, and Data Science

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, PostgreSQL, Async, Docker, CI, AWS, GCP, Azure, Vector DB
- Native Portuguese; fluent in English, French, and Italian; strong Spanish; basic Mandarin

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 83+ countries; marathon runner with 10 marathons and 10 half-marathons completed