

DUARTE O.CARMO

From Portugal, based in Copenhagen, Denmark

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[LinkedIn](#) | [GitHub](#)

EXPERIENCE

- 2022 [Self-employed](#), Technology Consultant - DK
Helping startups and established companies solving challenging problems with Machine Learning, Data, and Software Engineering
- Created an efficient similarity search engine for over 200K pharmaceutical drugs for a Denmark-based startup
 - 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
 - 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
 - Created four end-to-end NLP models to categorize 50M+ people and 20M+ companies for lead prospecting purposes (<5 months)
 - Used SOTA LLMs to develop a new SKU for a SF-based client; allowing customers to create personalized sales emails with a single click
 - Junior Colleague: *"I would probably not be so excited about learning so many different technologies if it were not for Duarte's example"*
 - Developed the API for a multi-modal search engine for SWE venture firm leveraging 12 different NLP/Audio/Video models
 - Lead development, research, and implementation of a carbon stock prediction model using Earth Observation data for UK-based client
- 2021 [DSB – Danske Statsbaner](#), Machine Learning Engineer - DK
Largest train operating company in Scandinavia. DSB has more than 195 Million passengers every year
- Designed foundation for "ATLAS": data mgmt. 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 – DK
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 +30 USDm 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
- 2019-2020 [Jabra – GN Audio](#), Digital Consultant – DK
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"
- 2019 [Jabra – GN Audio](#), Junior Product Manager – DK
- 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
- 2017 – 2018 [Jabra – GN Audio](#), Student Analyst in Strategy and Business Development – DK
- Reported to the VP of Strategy and Consumer Business
 - Developed 5 internal automation tools used by +30 people. By using them, each executive saved more than 4 hours a month
- 2017 [Bliss Applications](#), Intern – USA
One of the leaders in software development in Portugal. It employs 230 people. It has offices in Portugal, USA, and Brazil
- Worked with 3 clients to transform their ideas into viable technology products. Industries: Health, Entertainment and Social Media
- 2015 – 2016 [WYGroup](#), Resident Entrepreneur – PT
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

SKILLS

Speaking/Writing	Writer with avg. 2K/month pageviews. PyCon keynote speaker . Appearances in podcasts and blogs. See talks .
Software	Python, C++, Rust, Javascript, Go. OOP, TDD, Low Latency, Distributed systems
Areas	ML/Data Pipelines, Network Analysis, Machine Learning/ Deep Learning, MLOps, Software Engineering, System Design
Technologies	Git, Linux, Fast API, Django, Node.js, MongoDB, SQL, PostgreSQL, Graph QL, Restful APIS, Async, Docker, CI, AWS, GCP, Azure
Languages	Portuguese – Native; English – Fluent; French – Fluent; Spanish – Very Good User; Italian - Very Good User; Chinese – Basic

EDUCATION

- 2016 – 2018 [Technical University of Denmark, Master in Engineering Management](#) – DK
- Technology Management, Big Data, Social Graphs, Machine Learning. Final degree average grade of 10/12 (4.0 GPA)
 - [Thesis](#): "The uniqueness of technological capabilities: a data-driven network exploration", grade of 12/12 ([Paper published](#))
- 2015 – 2016 [Beijing Institute of Technology](#) – CN
- Electrical Engineering studies, including subjects about Digital Logic Circuits, CPU, and Computer Controlled Systems
- 2011 – 2015 [Instituto Superior Técnico, Bachelor in Engineering Sciences](#) – PT
- Finished among the top 30% of the class. Grade of 19/20 in the final project of the Computer and Programming class (Best of class)

HOBBIES

- Visited over 80 different countries in the world
- Marathon runner, 5 marathons and 5 ½ marathons ran