

CARLOS PALOMARES

Buitenveldertselaan 76B1 • Amsterdam, NL 1081AB • (+31) 625253728 • c.palomares89@gmail.com

CAREER PROFILE

Data Science Leader and Engineer driving data-driven decisions for top European companies in aviation MRO, e-commerce, and consumer goods. Proven track record of managing end-to-end ML lifecycles, overhauling AI strategies, democratizing ML, and integrating Generative AI in corporate processes. Core competencies include team leadership, software engineering (Python), ML Frameworks ([TensorFlow](#)), cloud technologies ([GCP](#), [AWS](#)). Certified [SAFe Product Owner](#).

CAREER HIGHLIGHTS

- Reduced onboarding time by 50% for North American, European, and Asian Airlines into a predictive maintenance platform while adjusting and operationalizing Machine Learning models for specific needs.
- Successfully deployed a corporate proprietary Python package adopted by over 300 users globally with 7 initial features, incorporating CI/CD for future releases.
- Advised sales representatives resulting in a five-year consultancy contract (\$440T p.a. per consultant) through the development of a PoC to integrate ML into customer's SAP infrastructure.
- Trained a Deep Learning Algorithm to pinpoint damages with an accuracy of over 94% in complex honeycomb structures while proving the efficacy of Lamb Waves in the Aerospace Industry for Condition Based Maintenance.

PROFESSIONAL EXPERIENCE

Philip Morris International - Amsterdam, The Netherlands

Apr 2022 - Present

Data Scientist Special Projects & Advanced Analytics Manager

- Developed and implemented Philip Morris' corporate AI strategy, aligning it with technology lifecycle and innovation management initiatives.
- Led and mentored a team of 5 data scientists and ML engineers. Coached senior stakeholders on intercultural management and communication.
- Reduced time from MVP to production by 30% by establishing global DS & ML standards, best practices, and pipeline templates.
- Developed and deployed end-to-end machine learning models and pipelines for consumer goods portfolio optimization, market expansion strategy, and product competitiveness.

Lufthansa Industry Solutions - Hamburg, Germany

Oct 2017 – Mar 2022

Technology Consultant – Data Science

- Advised customers on data-driven transformation strategies and implemented and operationalized data processing and analysis infrastructure, ML algorithms, and ETL pipelines.
- Generated new contract opportunities by supporting and counseling the Sales Team with technical insights, feasibility analysis, and PoCs.
- Analyzed new trends in the European and American markets to create the Mission, Vision, and Strategy for the new Artificial Intelligence Business Unit.

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Sample projects as **Technology Consultant** - More Info in my [Repository](#)

Predictive Maintenance for Public Transport - Data Science for Hamburg's Transport Association

Tech Stack: AWS Sagemaker & S3, Python, TensorFlow, Autoencoders

Cloud Provider Migration & Data Warehousing - Data Engineering for E-Marketing Company

Tech Stack: GCP BigQuery, Composer, GCS, GKE, Python, Terraform

Cloud Provider Migration & Code Optimization - Data Engineering for Retail & E-Commerce

Tech Stack: GCP BigQuery, DataProc, PySpark, Jenkins, FB Prophet

Predictive Maintenance for Aircraft Structures - Data Science for MRO Aviation Industry

Tech Stack: Python, PySpark, Apache Stack, Jenkins, SKlearn, Tableau

EDUCATION

Hamburg University of Technology - Hamburg, Germany

• M.Sc. in Mechatronics Engineering 2014 – 2017
Thesis: Predictive Maintenance for Aircraft Structures

• MBA in Technology Management 2015 – 2018
Thesis: Machine Learning for Financial Applications

Tecnológico de Monterrey - Monterrey, Mexico

• B.Sc. in Mechatronics 2007 – 2012
Final Project: Automated CNC Welder

Scholarships & Awards

Lufthansa Global Engineering Award - Selected as one of the 35 international students to attend a double master program. It consists of a M.Sc. + MBA at the Technical University of Hamburg.





DAAD – CONACYT Scholarship – One of the 55 nationwide scholarship grantees to pursue a postgraduate degree in a German University with the Deutsche Akademische Austauschdienst (DAAD).

Trainings & Certifications

SAFe – Scaled Agile Framework: Certified Product Owner	2023
Amazon Web Services: AWS Cloud Practitioner	2022
TensorFlow, Certified TensorFlow Developer	2021
Google Cloud Platform: Certified Professional Data Engineer	2020

All Trainings and Certifications in my [Repository](#)

Tech Skills, Languages, & Hobbies

Programming	Python, Bash, SQL, Terraform, MATLAB, Simulink, LabVIEW
Data Science Stack	TensorFlow, Apache Spark/Kafka/Hadoop, Google Cloud Platform, AWS
Languages	 (Native),  (Negotiation),  (Negotiation),  (Intermediate)
Hobbies	ML & AI, Statistics & Math. Finance, Economics, & Politics. Reading & Music, Engineering & Troubleshooting