

# CARLOS PALOMARES

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## 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 22**

*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

<a href="#">SAFe – Scaled Agile Framework: Certified Product Owner</a>	2023
<a href="#">Amazon Web Services: AWS Cloud Practitioner</a>	2022
<a href="#">TensorFlow, Certified TensorFlow Developer</a>	2021
<a href="#">Google Cloud Platform: Certified Professional Data Engineer</a>	2020

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

## Tech Skills, Languages, & Hobbies

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