

# CARLOS PALOMARES

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

# CARLOS PALOMARES

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

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 Hamburg University of Technology.





**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