

CARLOS PALOMARES

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CAREER PROFILE

Machine Learning Leader and Engineer enabling data-driven decisions making 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 400 users globally with 7 initial features, incorporating CI/CD for future releases.
- Trained a Deep Learning Algorithm to pinpoint damages with an accuracy of over 94% in honeycomb structures while proving the efficacy of Lamb Waves in Aerospace for Condition Based Maintenance.

PROFESSIONAL EXPERIENCE

Philip Morris International - Amsterdam, The Netherlands

Apr 2022 - Present

Advanced Analytics Manager Chapter

- Developed and implemented Philip Morris' corporate AI strategy, aligning it with technology lifecycle and innovation management initiatives.
- Led and mentored a team of 4 data scientists and ML engineers. Coached senior stakeholders on intercultural management and communication.
- Reduced time from MVP to production by 30% by establishing global ML best practices and templates.
- Trained and supported over 100 users of our internal Data Science and Analytics platform, while maintaining its base image and extensions.

Data Scientist Special Projects Chapter

- Prepared and analyzed (NLP) thousands of job postings for market expansion strategy.
- Trained and fine-tuned an LLM (Google T5) for summarization of internal documents using AWS SageMaker for training and serving.
- Developed and deployed end-to-end machine learning models and pipelines for consumer goods portfolio optimization, and product competitiveness indicators.
- Designed and implemented Streamlit apps with ML model serving endpoints for real time inference.

Lufthansa Industry Solutions - Hamburg, Germany

Oct 2017 – Mar 2022

Technology Consultant – Data Science | **Click here for all** [Projects as Consultant](#)

- 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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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

SKILLS AND TECHNOLOGY STACK

Programming Languages: Python, Matlab, LabVIEW, SQL, PySpark, Bash

ML Frameworks: TensorFlow, Scikit-learn, Hugging Face, LSTMs, Transformers, Autoencoders, Pandas

ML Applications: Time-series analysis, Deep Learning, NLP & LLMs

MLOps: Airflow & Kubeflow K8s - orchestration, Docker - containerization, MLflow - model registry, SageMaker Endpoints & Seldon Core - model serving, Canary & A/B - model monitoring

CI/CD: Jenkins, JFrog Artifactory, SonarQube

Cloud Platforms: GCP - Professional Data Engineer, AWS - Certified Cloud Practitioner

Cloud Technologies: BigQuery, GCS, GKE, Terraform, AWS SageMaker, Canvas, EC2, S3.

Data Warehousing & Big Data: BigQuery, AWS RDS, Apache Spark, Kafka, Hadoop, HDFS, EMR

Data Visualization: Plotly, Seaborn, Matplotlib, Streamlit, Tableau

Software Engineering: Git as VSC, unit testing Pytest, integration testing

Scholarships & Awards

ABCD (Above and Beyond Call of Duty) Award @ PMI - Awarded twice in one year for exceptional contributions to PMI's analytics portfolio - release of proprietary Python package with 400+ potential users.





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).

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

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

Languages, & Hobbies

Languages	 (Native),  (Negotiation),  (Negotiation),  (Intermediate)
Hobbies	ML & AI, Statistics & Math. Finance, Economics, & Politics. Reading & Music, Engineering & Troubleshooting