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 PMIs 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