

Danilo Azevedo Figueiredo

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[📍 Oriximiná, PA, Brazil](#)

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Experience

Federal University of Western Para (UFOPA), University Professor

Taught technology courses and developed practical AI and Data Science content using project-based learning.

- Taught AI, Data Science, Neural Networks, Computer Vision, Computer Architecture, and Data Structures.
- Built practical learning projects connected to real-world business problems.

Oriximiná, PA, Brazil

Aug 2023 – July 2025

2 years

Norsk Hydro, Process Control Technician II

Executed production control strategies and optimization in electronic mine dispatch systems.

- Managed KPIs and supported automation team operations.
- Authored a low-code mobile app (Parte Diaria Digital) for operational data management.

Paragominas, PA, Brazil

Oct 2021 – Oct 2022

1 year 1 month

Vale S.A., Integrated Control Technician

Worked in the Integrated Operations Center of Carajás with supervisory and mine dispatch systems.

- Controlled mining and mineral processing operations.
- Managed maintenance data and operational performance indicators.

Parauapebas, PA, Brazil

Oct 2019 – Apr 2021

1 year 7 months

Vale S.A., Technical Mining Intern

- Delivered georeferenced drilling projects for autonomous drilling equipment.
- Produced field monitoring data and KPIs for performance analysis.

Parauapebas, PA, Brazil

Aug 2018 – Aug 2019

1 year 1 month

Federal University of Para (UFPA), CNPq Research Fellow

Developed robust control simulations in Matlab for multivariable systems in an Electrical Engineering master's track.

Belem, PA, Brazil

June 2013 – June 2014

1 year 1 month

Education

USP ESALQ, MBA in Data Science and Analytics

May 2021 – Feb 2023

IESAM, BSc in Control and Automation Engineering

Belem, PA, Brazil

Feb 2007 – Jan 2012

Projects

Churn Prediction

Built a predictive model to identify customers at high risk of cancellation.

- Scikit-learn
- Random Forest

Geomarketing and Expansion

Built geospatial analysis to identify market gaps and optimize new locations.

- Plotly Mapbox
- Clustering

Financial Audit with AI

Implemented anomaly and fraud detection in corporate transactions.

- Isolation Forest
- Unsupervised machine learning

Strategic KPI Dashboard

Developed hierarchical KPI dashboards for target and quality monitoring.

- Streamlit
- Business intelligence

Logistics Lead Time Analysis

Performed statistical analysis of delivery lead time with real operational data.

- Pandas
- Descriptive statistics

Skills

Languages

Libraries and Frameworks

Databases and Cloud

Development Tools

Certificates

Green Belt Six Sigma

Microsoft Power Platform Fundamentals (PL-900)

Power BI Advanced

Machine Learning Bootcamp

Google Cloud Data, ML, and AI in Google Cloud

Microsoft Azure Data Fundamentals

Publications

CONTROLO 2014 Proceedings of the 11th Portuguese Conference on Automatic Control

Danilo Azevedo Figueiredo

doi.org/10.1007/978-3-319-10380-8_19

2013 International Conference on Interactive Collaborative Learning (ICL)

Danilo Azevedo Figueiredo

doi.org/10.1109/ICL.2013.6644710

Languages

Portuguese

Native speaker

English

Proficient (TOEFL ITP B2)