

João Paulo Canário, Ph.D.

Machine Learning Engineer

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PROFESSIONAL EXPERIENCE

Stone

2022 – present

Senior Data Scientist

- Development assist of the stream anti-fraud engine used to analyze over one 100K transactions per day for risky decisions;
- Responsible for the creation of anti-fraud rules and data modeling initiatives to amplify fraud prevention assertiveness;

CI&T

2021 – 2022

Senior ML Engineer

- Assist in building and growing the Python Platform for Machine Learning, Data Science, and MLOps for the Via Varejo company.

Senior Data Scientist

- Aid the creation of a machine learning model for the recommendation system for the Via Varejo company.

NeoDados Analytics

2018 – 2021

Senior Software Engineer (Machine Learning)

- Architect REST APIs for systems integration and managed all phases of the software development lifecycle.
- Develop a document automation system that increased by 800% the productivity of the fraud analysis team.
- Create an async image classification system that processes 1M images/day with over 80% accuracy.
- Create an ETL workflow to ingest data on a fraud detection system to process over 500K bus card usage data per day.

EchoFlow Engineering

2015 – 2017

Computer Vision Engineer

- Develop a computer vision system with 94% precision to detect patterns in oil transport.
- Develop a REST API for an online water supply management system.

Instituto Reconcavo de Tecnologia

2008 – 2014

Middle Software Engineer

- Re-architected a computer factory management system.

Junior Software Engineer

- Developed over 40 educational games

Geotecnia Lab of Polytechnic School

2007 – 2008

Internship

- Assisted in the development of a car classification system based on fuzzy logic.

SKILLS

Programming – Python, Kotlin, Elixir, Celery, Docker, Kubernetes, FastAPI, Flask, Javascript, RabbitMQ, Kafka, REST API, Shell Script, Git • **Science** – Data Science, Machine Learning, Computer Vision, Deep Learning • **Data** – MLOps, SQL, MongoDB, Redis, PostgreSQL, Airflow, Azure Databricks, ApacheFlink, PySpark, NumPy, Polars, Pandas, OpenCV, Scikit-Learn, Keras, TensorFlow, PyTorch

EDUCATION

PhD in Computer Science Sep 2017 – Jul 2022
Federal University of Bahia
On Deep Learning Features for Noisy Time Series Classification.
Thesis defense: July 04, 2022

PUBLICATIONS

A face detection ensemble to monitor the adoption of face masks inside the public transportation during the COVID-19 pandemic 2022
Multimedia Tools and Applications

Ethics of AI: Do the Face Detection Models Act with Prejudice? 2021
Brazilian Conference on Intelligent Systems

In-depth comparison of deep artificial neural network architectures on seismic events classification 2020
Journal of Volcanology and Geothermal Research

Llaima volcano dataset: in-depth comparison of deep artificial neural network architectures on seismic events classification 2020
Data in Brief

Using CNN to classify spectrograms of seismic events from Llaima volcano (Chile) 2018
International Joint Conference on Neural Networks

Recognition of facial expressions based on deep conspicuous net 2015
Iberoamerican Congress on Pattern Recognition