João Paulo Canário

Machine Learning Engineer

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joaopcanario.com

PROFESSIONAL EXPERIENCE

Stone Co   2022 – present
Data Scientist

CI&T   2021 – 2022
Machine Learning Engineer, Data Scientist
- Aid the machine learning model creation for a recommendation system of the Via Varejo company.
- Assist in the build and growth of the Python Platform for Machine Learning, Data Science, and MLOps 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
Software Engineer
- Re-architected a computer factory management system.
- Developed over 40 educational games

SKILLS

Programming *(Python, Celery, Docker, FastAPI, Redis, RabbitMQ, REST API, Shell Script, Git)*

Science *(Machine Learning, Computer Vision, Deep Learning, Data Science)*

Data *(ETL, Azure Databricks, PySpark, NumPy, Pandas, OpenCV, Scikit-Learn, Keras, TensorFlow, PyTorch, SQL, Relational and Non-Relational Databases)*

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   2022
adoption of face masks inside the public
transportation during the COVID-19
pandemic**
Multimedia Tools and Applications

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

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

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

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

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