Ítalo de Pontes Oliveira

M.Sc. in Computer Vision
Data Scientist

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ENGLISH LEVEL

Good level of Reading, Writing, and Listening skills. Intermediate level in Conversation.

SOFT SKILLS

I have good rapport and communication with both the team and clients. I enjoy aligning delivery expectations to prevent misunderstandings. I am proactive in identifying and resolving issues. I take pride in the quality of code, presentations, and report writing.

HARD SKILLS

Programming Languages and Scripting
Python - Shell Script - C/C++ - Regex

Data Manipulation and Analysis
Pandas - Numpy - SQL

Data Visualization
Seaborn - Plotly - Matplotlib - Ydata-profiling - Missingno

Machine Learning Libraries
Scikit-Learn - PyOD (Python Toolkit for Outlier Detection) - Imbalance-learn - WEKA

Deep Learning Frameworks and Tools
Tensorflow - Keras - PySpark - YOLO - OpenCV - Caffe - SHAP - LIME

Natuaral Language Processing (NLP)
Gensim - NLTK - Hugging Faces - Word2vec - Prod2vec - Meta-Prod2Vec

Recommender Systems (RecSys)
LightFM (Factorization Machines) - Gru4Rec - Transformers4Rec

Web Development and Scraping
WebScraping - Beautifulsoup

Development Environment and Tools
Anaconda - Jupyter Notebook - Git - Pytest - Doxygen - QtCreator - CppCheck

Other Libraries and Utilities
Docker - BoostUTF - LaTeX - Presidio (Data Protection and De-identification SDK)

ACADEMIC BACKGROUND

Ph.D. interrupted in Computer Science   2017 - 2020
Subarea: Recommendation Systems (RecSys)
Federal University of Campina Grande (UFCG)

Master's degree in Computer Science   2014 - 2016
Subarea: Deep Learning & Computer Vision
Federal University of Campina Grande (UFCG)

Technologist in Telematics   2010 - 2013
Subarea: Digital Video Processing
Federal Institute of Education of Paraíba (IFPB)

PROFESSIONAL AND ACADEMIC EXPERIENCE

Lead Data Scientist at Fabwork   2020 - 2023
Clients: Leroy Merlin, Heineken, Gerdau, B3, Incentivar, Ministry of   (3 years)
Education
Areas: Various (forecasting, stockout/stock over prediction,
default prediction, market-share prediction, and others)

Machine Learning Engineer   2022 - 2023
Client: Siemens (R&D project)   (1 year)
Area: churn prediction

Natural Language Processing Engineer   2019 - 2022
Client: Dell (R&D project)   (3 years)
Area: Natural Language Processing

Data Scientist Freelancer   2019 - 2020
Cliente pediu para não ser revelado (NDA)   (6 months)
Area: Fraud Detection (Github)

Computer Vision Engineer   2015 - 2016
Client: HP (projeto P&D)   (1 year)
Area: Object Detection and Recognition

Software Engineer   2011 - 2012
Client: IFPB (PIBICT project)   (1 year)
Area: UML modeling methods

AWARDS

Silver Medal in the Hackfest Competition   2017
Challenge sponsored by the Public Ministry.
https://github.com/quebraquebra
Quebra Câmara-Quebra Senado
News

IEEE Student Group Revelation in Latin America   2013
I was president of the IEEE-affiliated student group, which was
recognized in Latin America for the work developed (certificate).

LINKEDIN BADGE in

Top 15% in Python
Top 15% in Machine Learning

PATENT

SQUALES (BR 512014000292-6)

Intellectual Property registered at INPI.
Software for video processing.

SHORT COURSES

Coursera - SQL for Data Science (certificate)	2024
Coursera - TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning (certificate)	2019
Udemy - Spark and Python for Big Data with Pyspark (certificate)	2019

SCIENTIFIC PAPERS

CONFERENCES

Video Audience Analysis using Bayesian Networks and Face Demographics Conference on Graphics Patterns and Images - (SIBGRAPI)	2019
Improving Face Detection Performance by Skin Detection Post-Processing Conference on Graphics Patterns and Images - (SIBGRAPI)	2017
A Data Augmentation Methodology to Improve Age Estimation using Convolutional Neural Networks Conference on Graphics Patterns and Images - (SIBGRAPI)	2016
Temporal Analysis and Perceptual Weighting for Objective Video Quality Measurement IEEE Southwest Symposium on Image Analysis and Interpretation - (SSIAI)	2014
Spatial and Temporal Analysis Considering Relevant Regions Applied to Video Quality Assessment Brazilian Symposium on Telecom. and Signal Processing - (SBrT)	2013
Objective estimation of 3D video quality: A disparity-based weighting strategy IEEE International Symposium on Broadband Multimedia Systems and Broadcasting - (BMSB)	2013

JOURNALS

Study of the Relation Between Spectators Gender and Video Content Theoretical and Applied Informatics Journal (RITA)	2016
Design of Objective Video Quality Metrics Using Spatial and Temporal Information IEEE Latin America Transactions	2015
Fuzzy logic and temporal information applied to video quality assessment Journal of Mobile Multimedia (JMM)	2013

ACADEMIC SERVICES

Young Professional Member of the IEEE (Member #92518522)	2014
President at the IEEE Student Branch of IFPB-CG	2013
Student member of the Brazilian Telecommunications Society (SBrT)	2013