Yanka Ribeiro

Machine Learning Engineer

in ⬡ GitHub 🌐

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About Me

Master's student with **4 years of hands-on experience** in ML Engineering, specializing in **Computer Vision**, **Image Processing**, and **AI/ML Research**. Skilled in end-to-end development, from **model design to deployment**, with a focus on innovation and multidisciplinary collaboration

Portuguese, English German	*Fluent Intermed.*

Skills

MLOps

Cloud Computing (GCP)

Python, C++

SQL

TensorFlow, PyTorch

OpenCV; Scikit-learn, Hugging Face;

SpaCy

Git, Docker

Scientific Research & Experimentation

Experience

Machine Learning Engineer
HVAR Consulting   2024 - now
- Developing and deploying scalable AI solutions on Cloud
- Implemented advanced computer vision algorithms and natural language-to-SQL pipelines
- Achieved high accuracy (up to 99%) and optimizing processing efficiency by 40% on Google Cloud Platform (Vertex AI, BigQuery, Cloud Run, Compute Engine)

Data Scientist
IBM Consulting   2022 - 2022
- Delivered end-to-end ML solutions, from collaborating with clients to understand business needs and developing high-precision models (e.g., 90% precision in budget classification) to deploying secure, scalable pipelines using Docker and Python (Pandas, Scikit-learn, NLTK), ensuring compliance

Machine Learning Engineer
EDGE Research Lab   2021 - 2022
- Designed and deployed NLP-based systems (spaCy, fine-tuned BERT) and predictive models, to automate processes, improve accuracy (e.g., reducing government bid losses by 65%), and deliver scalable, secure applications via RESTful APIs and Docker

Education

MSc. Computational Modeling and Simulation
Technische Universität Dresden   2024 - 2026
Track Visual Computing

BSc. Computer Science
Federal University of Alagoas   2019 - 2023
Thesis title: *Evaluation of deep metric learning methods for the diagnosis of human visceral leishmaniasis*

Publications

A Patch-based Microscopic Image Analysis for Visceral Leishmaniasis Screening Using a Deep Metric Learning Approach (2024)
XXIV SBCAS 2024
We proposed a novel approach to the detection of VL amastigotes by combining deep metric learning with supervised classification techniques. We outperformed the state-of-art for this detection problem achieving an f1-score of approximately 99%.

Machine Learning approaches used to Evoked Auditory Brainstem Response Analysis: A systematic review (2024)
23rd Congress of the Brazilian ENT Foundation
This review aims to explore the potential of ML to enhance the efficiency of auditory evaluations and identify models that excel in analyzing Evoked Auditory Potentials and wave marking compared to audiologists' diagnoses.

Key Qualifications

Professional Machine Learning Engineer	Associate Machine Learning Specialist	Associate Data Scientist
Google	IBM	IBM
Year: 2025	**Year:** 2022	**Year:** 2022
Credly Badge Link	**Credly Badge Link**	**Credly Badge Link**