



Yanka Ribeiro

Machine Learning Engineer



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📍 Dresden, Germany [UTC+1]

👤 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
Basic



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
Google

Year: 2025

[Credly Badge Link](#)

Associate Machine Learning Specialist
IBM

Year: 2022

[Credly Badge Link](#)

Associate Data Scientist

IBM

Year: 2022

[Credly Badge Link](#)