

Neemias Bucéli

AI Specialist | PhD Candidate in AI

Curitiba, PR, Brazil

✉ neemiasbsilva@gmail.com

[in](#) [neemias-buceli](#)

[neemiasbsilva](#)

Summary

AI Specialist and PhD Candidate in Artificial Intelligence with a robust background in Multimodal Large Language Models (MLLMs), conversational agents, and enterprise AI strategy. Currently driving AI initiatives at Grupo Águia Branca, modernizing operations across a large conglomerate. Proven track record building data and AI divisions, architecting multi-agent systems (Google ADK, Agent Engine, LangGraph), and deploying scalable MLOps pipelines on GCP and Azure. Deeply passionate about the intersection of AI, computer vision, and computational social systems.

Experience

- Apr 2026–Present **AI Specialist**, GAB — Grupo Águia Branca, Remote
- Jul 2025–Apr 2026 **Master Data Specialist**, CI&T, Curitiba, PR
Tech-led a data team building production multi-agent systems with Google ADK and Agent Engine. Built and led the inaugural data and AI division of a global industrial company, delivering forecasting models, ML-driven limits generation, automated tendency detection, and end-to-end MLOps pipelines on Vertex AI.
- Jan 2025–Jul 2025 **Senior AI/Machine Learning Engineer**, HVAR, Remote
Led the development of conversational agents. Designed an enterprise support chatbot using LangGraph, Vertex AI, and Google Cloud Run with vector search. Architected an automotive AI assistant leveraging LangChain, Azure Databricks, MLflow, and robust RAG pipelines.
- Nov 2022–Jan 2025 **Data Scientist**, Amaris Consulting, São Paulo, SP
Guided organizations including Renault Group in leveraging data science. Implemented scalable AI solutions for forecasting and anomaly detection using GCP and Vertex AI. Delivered an end-to-end MLOps NLP model to classify homologation impacts, reducing warranty costs.
- Jan 2021–Nov 2022 **Data Scientist**, Intelia, Curitiba, PR
Designed and built Machine Learning models for a speech analytics product, focusing on Speech Emotion Recognition and Audio Classification. Engineered features and deployed models using Docker, BigQuery, Keras, and TensorFlow.
- Aug 2018–Aug 2019 **Scientific Scholarship Holder (CNPq)**, UFMS, Campo Grande, MS
Conducted research on “Convolutional Neural Networks Applied to Plant Leaf Counting” under the guidance of Dr. Wesley Nunes Gonçalves.

Education

- 2025–Present **PhD in Artificial Intelligence**, University of Toronto & UTFPR
Joint research exchange program. Scholarship Holder.
- 2023–2025 **Master’s in Electrical and Industrial Computer Engineering**, UTFPR, Curitiba, PR
Focus: Visual Sentiment Analysis, Multimodal LLMs, Computational Social Systems.
- 2018–2021 **Bachelor’s in Computer Science**, UFMS, Campo Grande, MS

Publications

- 2026 **Multimodal Large Language Models (MLLMs): From Theory to Practice**, *Webmedia (Book Chapter)*
da Silva, Scholz, Harrison, et al. A practical guide to MLLM fundamentals and hands-on implementation with LangChain and LangGraph.
- 2025 **Multimodal LLMs See Sentiment**, *arXiv*
da Silva, Harrison, Minetto, Delgado, Nassu & Silva. MLLMsent: a framework leveraging MLLMs for visual sentiment analysis achieving state-of-the-art results.
- 2020 **A CNN approach for counting and geolocating citrus-trees in UAV multispectral imagery**, *ISPRS Journal*
Osco, Arruda, Marcato, da Silva et al.
- 2019 **Regression in Convolutional Neural Networks Applied to Plant Leaf Counting**, *WVC*
da Silva & Gonçalves.

Selected Open Source Projects

- 2026 **nanoGPT2-fineweb**, *GitHub: neemiasbsilva*
Built a custom nano GPT-2 from scratch using PyTorch trained on the FineWeb dataset.
- 2026 **MLLMs-Teoria-e-Pratica**, *GitHub: neemiasbsilva*
Theory and hands-on practice of Multimodal Large Language Models with annotated Jupyter Notebooks.

Technical Skills

Cloud & MLOps	GCP (Vertex AI, Cloud Run, Cloud Functions, BigQuery, GKE, Dataplex), Azure Databricks, Docker, MLflow, Kedro
AI/ML	Multimodal LLMs, RAG, Conversational AI Agents, NLP, Computer Vision, Speech/Audio Analytics
Frameworks	PyTorch, TensorFlow, Keras, Hugging Face, Scikit-learn, OpenCV, Streamlit
Agent Tooling	LangChain, LangGraph, Google ADK
Programming Languages	Python, TypeScript, C++, Shell Script, SQL Portuguese (Native), English (Fluent), Spanish (Elementary)