

MATHEUS SILVANO PEREIRA

AI Developer / Junior Machine Learning Engineer

Florianópolis, Brazil – Open to Remote Roles (US/EU)

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Professional Summary

Artificial Intelligence Developer with hands-on experience building **LLM-based applications**, **RAG pipelines** and **REST APIs** in **Python**. Experience integrating **Large Language Models**, **vector databases** and corporate knowledge bases at **Dígitro Tecnologia**, plus prior work in process automation and data integration at **Nexxera**. Interested in **AI Engineer** and **Junior ML Engineer** roles, contributing to end-to-end solutions from prototype to production.

Professional Experience

Dígitro Tecnologia — AI Developer Intern

Florianópolis, Brazil

Apr 2025 – Present

- Develop and deploy **REST APIs** with **FastAPI** to expose **LLM-based agents** for internal users, improving access to corporate information.
- Implement **RAG** pipelines connecting **LLMs** and **vector databases** for contextual search over technical documentation and internal knowledge.
- Support evaluation and testing of **Machine Learning** and **NLP** models in a production-like environment, collaborating with product and business teams.

Nexxera — Implementation Analyst

Florianópolis, Brazil

Dec 2023 – Apr 2025

- Automated workflows using **Python** and **Shell Script**, reducing manual effort in deployment and support routines.
- Analyzed and validated client data integrations using **SQL** (PostgreSQL, Oracle), ensuring data quality and consistency across systems.
- Managed technical tickets in **Jira** and aligned integration requirements directly with clients.

Nexxera — Implementation Apprentice

Florianópolis, Brazil

Jan 2022 – Dec 2023

- Supported data updates and system configuration tasks following standardized procedures to keep internal databases accurate.

Technical Skills

Programming: Python, Shell Script, SQL, JavaScript, R.

AI & ML: Machine Learning, NLP, Large Language Models (LLMs), **RAG**, **LangChain**, text classification, vector search.

Data Tools: Pandas, NumPy, Scikit-learn, basic TensorFlow, data preprocessing, feature engineering.

Backend & APIs: FastAPI, basic Django, REST API design and implementation.

Databases: PostgreSQL, Oracle (PL/SQL), MySQL, ChromaDB (vector database).

DevOps & Systems: Docker, Docker Compose, Linux, script automation, basic CI/CD concepts.

Collaboration: Git, GitHub, GitLab, Jira, Agile (Scrum, Kanban).

Relevant Projects

Mooose — Free AI for ENEM Essay Evaluation

Web platform that evaluates ENEM essays (Brazilian national exam) from photo or text upload using **LLMs**. The system assesses structure, coherence and rubric-like criteria, generating an estimated score and detailed feedback for students.

Tech stack: Python, FastAPI, LLMs, RAG, Docker, HTML/CSS/JavaScript, Git.

Website: mooose.com.br

Toxic Comment Detector (2025)

NLP project for toxic content detection, including data preprocessing, traditional ML models for text classification, evaluation and a **Streamlit** web interface for content moderation.

Tech stack: Python, Pandas, Scikit-learn, Streamlit, Docker.

GitHub: github.com/matheussilvano/toxic-content-detector

App: toxic-content-detector.streamlit.app

Education

Bachelor of Information Systems (in progress)

Federal University of Santa Catarina (UFSC), Brazil

2024 – 2028

Languages

Portuguese: Native.

English: Intermediate (B2) — Duolingo English Test 101.

Spanish: Basic / Intermediate (B1).

Certifications & Achievements

Complementary training in **Python**, **Machine Learning**, **MLOps** and **DevOps** through online courses from Google, AWS, USP, Udemy, Ada Tech, Hugging Face and University of Michigan.

Full list of courses and certificates: matheussilvano.dev/cursos.

OBMEP — Honorable Mention (2019, 2022).

ONC — Silver Medal (2022). Certificate: certificados.onciencias.org/item/AD89PC1S