

# MATHEUS SILVANO PEREIRA

AI Developer / Junior Machine Learning Engineer

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

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## Professional Summary

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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

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**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

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**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

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## **Moose — 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](https://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](https://github.com/matheussilvano/toxic-content-detector)

App: [toxic-content-detector.streamlit.app](#)

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## **Education**

### **Bachelor of Information Systems** (in progress)

Federal University of Santa Catarina (UFSC), Brazil

2024 – 2028

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## **Languages**

Portuguese: Native.

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

Spanish: Basic / Intermediate (B1).

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## **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](https://matheussilvano.dev/cursos).

**OBMEP** — Honorable Mention (2019, 2022).

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