

Nayara Maria Rocha Neves do Valle Sperandio Malta

AI & AUTOMATION ENGINEER | TECHNICAL PROJECT LEADERSHIP

Juiz de Fora, MG, Brasil | ☎ +55 (32) 98898-5928 | ✉ nayaramsr@gmail.com | [in linkedin.com/in/nayara-sperandio](https://www.linkedin.com/in/nayara-sperandio)

SUMMARY

AI and automation engineer with 4+ years of experience across machine learning, MLOps, data engineering, systems integration, and workflow automation, combining hands-on engineering with technical delivery and project leadership. Recent work spans e-commerce data platforms, AI agents, ETL/ELT pipelines, data quality, and API integrations using Python, SQL, BigQuery, n8n, and GCP. Currently manages technology and AI initiatives in the real estate sector while leading an automation and systems-integration consultancy.

TECHNICAL SKILLS

- **AI and machine learning:** OpenAI/large language models (LLMs), AI agents, TensorFlow, TensorFlow Lite, Scikit-Learn, OpenCV, MobileNet, neural networks, and computer vision.
- **Automation and integrations:** n8n, REST APIs, webhooks, Amazon Ads API, Amazon Selling Partner API (SP-API), Slack, Typeform, TeamTailor, CRM, and ERP platforms.
- **Programming and data:** Python, SQL, Pandas, PySpark, BigQuery, PostgreSQL, and Supabase.
- **Cloud, MLOps, and delivery:** GCP, Databricks, OpenMetadata, Docker, Git, Jenkins, Bitbucket, CI/CD, Streamlit, Sphinx, and Confluence.

EXPERIENCE

Technology & AI Project Manager

Atlas Tech | Curitiba, PR, Brazil | Jun 2026 – Present

- Manage a technology and AI portfolio serving 3 real-estate clients simultaneously, translating business requirements into solution scope, priorities, acceptance criteria, and delivery plans.
- Coordinate teams of 6–7 people and 8 external vendors across applications, dashboards, automation workflows, and data initiatives, managing backlog, dependencies, risks, and functional validation.
- Coordinated delivery of 3 dashboards, 2 applications, and 6 automations; all projects recorded for the period were delivered on schedule.
- Lead initiatives associated with reducing more than 30 manual processes and with data solutions built on 21 tables containing more than 3 million rows each.

Founder | Automation & Systems Integration Consultant

Sperandio Malta Automation | 2025 – Present

- Founded and lead a technology consultancy focused on process automation, systems integration, and tailored digital solutions, with 2 clients and 6 projects recorded to date.
- Deliver ERP, finance, and CRM integration work, including initiatives across Mega Senior, OMIE, and Bitrix24 to improve customer, sales, cash-flow, and inventory processes.
- Translate operational needs into technical requirements, API integrations, workflows, and automation solutions from solution design through implementation.

AI & Automation Engineer

Adaptive Teams | Apr 2025 – Jun 2026

- Worked on data and automation products for international e-commerce operations, including the Ecombrain data platform, AI agents, and internal tooling for PPC, recruiting, and account-management workflows.
- Contributed to Python/SQL pipelines in BigQuery for ingesting, standardizing, and transforming Amazon Ads, Seller Central, and Vendor Central data using layered L1/L2/L3 architecture and Amazon Ads API / Amazon SP-API integrations.
- Built and evolved n8n automations and LLM integrations for initiatives such as Mayo, Optimo, and Valkyrie, connecting data, APIs, Slack, Typeform, TeamTailor, and operational workflows.
- Supported data-quality audits covering coverage, freshness, missing dates, and consistency, using telemetry, tests, and reporting to improve pipeline traceability and reliability.
- Implemented a Python Amazon-vs-BigQuery validation pipeline—directly attributable in the available Git history—to detect discrepancies, generate reports, and add OpenAI-assisted analysis.
- Contributed to agent-tooling initiatives including Toolbelt/OpenClaw, reusable automations, REST APIs, Docker-based services, and PostgreSQL-backed operational state.

Machine Learning / MLOps Engineer

ACT Digital | Aug 2022 – Apr 2025

- Developed an MLOps platform to manage the machine-learning lifecycle, standardizing model deployment, monitoring, data quality, and production maintenance.
- Led the platform integration with OpenMetadata on Google Cloud Platform (GCP), covering the work from solution design through delivery.
- Built a Streamlit interface for model contracts with Databricks API authentication and field validation.
- Automated a continuous integration (CI) pipeline for code analysis, Confluence documentation generation, and centralized metadata, while supporting production model operations.

Computer Vision Specialist

Vixsystem | Apr 2022 – Jun 2022

- End-to-end design of a computer vision system for a robot intended for the visually impaired, using Raspberry Pi and ROS;
- Research applied to the detection of people and objects of interest using convolutional neural networks, using the MobileNet network in the final version, which delivered better responses for an embedded system;
- Verification and classification of detected objects based on priority and position relative to the user, triggering audible warnings about detected objects.

IT Intern

Nestlé Brasil Ltda | Apr 2018 – Dec 2018

- Developed an IT equipment tracking system and supported maintenance of factory network-connected systems.

EDUCATION

M.Sc. in Electrical Engineering – Electrical Power Systems | Federal University of Juiz de Fora (UFJF) | 2019 – 2021

- Developed software for computer vision applications using deep learning and morphological operations with OpenCV library.
- Utilized the software to extract relevant information from tennis game images, including ball position, score validity analysis, court line detection, and player location.
- Integrated the software with an Android application to provide users access to the extracted data.
- Implemented communication between project devices and processing steps using the ROS framework.
- Utilized Python for the software's back-end development and Java/XML for the front-end.

B.Sc. in Electrical Engineering - Robotics & Industrial Automation | Federal University of Juiz de Fora (UFJF) | 2014 – 2018

- As a course completion work, developed a code capable of predicting the differences in PLDs between the sub-regions of Brazil using Artificial Neural Networks of the TDNN type, with the training method being a hybrid of Levenberg-Marquardt with Momentum and Resilient-Backpropagation.
- Member of a robotics team, actively participating in the construction and development of robots used for competitions. The robots are controlled through the analysis of sensors data and processed images from a camera above the field, using the analysis of the patterns to determine the location and navigation of the robot in the field.

Technical Diploma in Industrial Automation | SENAI | 2018 – 2019

- Effective participation in the preparation of projects, logical diagrams, system architectures and technical reports. In addition, control and automation systems were installed.

Technical Diploma in Information Technology | Federal Institute of Southeast Minas Gerais | 2011 – 2014

- Participation in the project "IFJF APP: A Virtual Guide with Augmented Reality" to improve the user experience during campus visits, providing Augmented Reality resources to provide interactive experiences to users through smartphone cameras.
- The iOS operating system and Xcode IDE were used for project development.
- Implementation using Objective-C language.

ARTICLE PUBLISHED

- ROCHA, N. M. S. et al. "Analysis of tennis games using TrackNet-based neural network and applying morphological operations to the match videos." Signal, Image and Video Processing, 2022.
- MELO, A. G. et al. "Low-cost Trajectory-Based Ball Detection for Impact Indication and Recording." Journal of Control, Automation and Electrical Systems, 2021.
- ROCHA, N. M. S. et al. "Prediction of Discrepancies in the Settlement Price of Differences Between the Subregions of the Brazilian Energy System." CLAGTEE, 2019.