

# André Vargas

## Machine Learning Engineer Specialist

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### SUMMARY

Machine Learning Engineer specialising in MLOps, LLMOps and AIOps, building and deploying production-ready ML and AI systems. Solid background in cloud architecture (GCP, Azure, AWS), CI/CD, Databricks and MLflow, with a career path that went from hardware and IoT to Data Science, ML Engineering, MLOps, and now generative and agentic AI.

### PROFESSIONAL EXPERIENCE

#### Machine Learning Engineer Specialist | Telefónica

October 2026 - Present | Remote

#### Tech Lead · Machine Learning Engineer Specialist | Grupo Casas Bahia

August 2024 - September 2026 | Remote

- Led a team of 5 machine learning engineers, organising and driving projects, epics, KRAs, and other initiatives in the development of Grupo Casas Bahia's AI Platform.
- Supported the migration of analytical datasets and ML pipelines from Azure to GCP (3,500+ processes) within a company-wide modernisation effort, enhancing performance, cost, and governance foundations.
- Engineered a new end-to-end CI/CD pipeline (Databricks + Airflow + GitHub Actions) for reproducible model and data deployments.
- Contributed to Cerberus, an internal tool to optimise the company's use of MLflow, improving governance, traceability, and reproducibility across ML models and LLM projects.
- Designed and built "Sauron", an internal Databricks-based monitoring framework that automates data quality and drift dashboards across dev and prod via asset bundles, cutting manual setup time from hours to minutes.
- Created a versioning solution for Databricks Genie Agents, enabling a deployment pipeline for Genies and improving governance for the agents team.
- Monitored and operated 20+ Machine Learning models deployed and orchestrated on Databricks and Google Cloud.

#### Senior Data Scientist | Stefanini Brasil (Banco do Brasil)

January 2024 - July 2024 | Remote

- Built credit risk models to estimate the probability of asset default, supporting decision-making in portfolio management and regulatory compliance.
- Developed managerial market projection models to forecast financial trends, enabling strategic planning and business insights for senior stakeholders.

#### Machine Learning Engineer · Data Scientist | Falconi

March 2022 - December 2023 | Remote

- Designed cloud architecture solutions for Machine Learning systems and deployed models and APIs to production.
- Applied MLOps and CI/CD best practices; helped develop Falconi's internal MLOps stack and deployed its MLflow Server on Google Cloud Platform.
- Developed supervised and unsupervised Machine Learning models for a range of business problems, plus data apps and internal libraries to accelerate project delivery.

#### Hardware Engineer · Technology Specialist | SENAI-SP

May 2018 - February 2022 | São Paulo, Brazil

- Designed and prototyped hardware for industrial applications, from electronics and microcontrollers to embedded firmware.
- Delivered projects in the Internet of Things, Industrial Automation, Industry 4.0, and Digital Transformation.
- Took my first steps in Data Science, applying it to industrial projects, which set the direction for the rest of my career.

## EDUCATION

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### B.Sc. in Mechatronics Engineering | Universidade de Brasília, Brazil

2011 - 2017

- Exchange year abroad at Cardiff University, United Kingdom (2014 - 2015).

## TECHNICAL SKILLS

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**Machine Learning Platform & Monitoring:** Databricks (Spark, Delta Lake, Unity Catalog), Lakehouse Monitoring, Asset Bundles, MLflow (tracking, registry, model packaging)

**GenAI, LLMops & Agents:** LLM lifecycle and governance with MLflow (tracking, evaluation, traceability), Databricks Genie Agents (versioning and deployment pipelines)

**Data Engineering & Orchestration:** PySpark / Spark SQL, Airflow, SQL

**CI/CD & Platform Engineering:** GitHub Actions, Docker, Kubernetes, GitOps workflows

**Cloud & Infrastructure:** Google Cloud Platform (GCP), Microsoft Azure, Amazon Web Services (AWS)

**Model Serving & Applications:** FastAPI, Streamlit, Flask

**Programming & Core:** Python, SQL, Bash scripting

## LANGUAGES

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Portuguese (native) | English (fluent) | Spanish (advanced) | Italian (basic)