

Marielle Côrtes

> TECH LEAD — DATA & ANALYTICS | AI PLATFORMS

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// SUMMARY

Tech Lead of a Data & Analytics Engineering team at Mercado Libre (Latin America's largest e-commerce and fintech ecosystem), focused on a problem most companies are just waking up to: measuring whether AI is actually working — making AI impact quantifiable instead of anecdotal. Grounded in 5+ years of data & ML engineering (pipelines, streaming, large-scale analytics) at Mercado Libre and Itaú Unibanco: a foundation for production LLM systems, where retrieval quality, evals, and cost/latency trade-offs are data problems wearing new clothes.

// CORE SKILLS

AI & GENAI	AI agents, RAG, MCP, LangChain, FAISS, OpenAI & Claude APIs, LLM evaluation
DATA ENGINEERING	BigQuery, PySpark, streaming, ETL/ELT, data modeling, feature stores, Data Mesh
CLOUD & PLATFORM	GCP, AWS (Lambda, Glue), Docker, Kubernetes, Jenkins, Infrastructure-as-Code
LANGUAGES	Python, SQL
OBSERVABILITY & BI	Datadog, Grafana, Kibana, Monte Carlo, Tableau, Power BI, Looker
LEADERSHIP	Technical strategy, cross-functional coordination, executive stakeholder management

// EXPERIENCE

Mercado Libre — Latin America's largest e-commerce & fintech ecosystem (NASDAQ: MELI)

Tech Lead — Data & AI Engineering

AUG 2025 — PRESENT

- Lead the Data & Analytics Engineering team behind Mercado Libre's GenAI productivity initiatives — measuring AI adoption, agent impact across the SDLC, and engineering effectiveness for 30K+ developers and builders.
- Designed the analytics frameworks that identified ~50% productivity gains among developers using AI coding tools, directly informing executive and SVP-level decisions on AI investment.
- Own the cross-functional AI telemetry strategy, integrating data from multiple AI coding assistants, AI agents, and internal engineering platforms into unified engineering-intelligence datasets.
- Built systems aggregating activity logs from 18+ engineering tools to surface productivity patterns and developer behavioral clusters at scale.
- Partner with engineering leadership to define AI-adoption measurement frameworks and productivity KPIs; drive architecture decisions across telemetry ingestion, data modeling, experimentation, and executive reporting.

Sr. Data & Analytics Engineer

JUL 2022 — AUG 2025

- Architected scalable feature-store platforms supporting ML experimentation and 1.7K+ production-grade metrics.
- Built AI experimentation and analytics frameworks to measure the business impact of Generative AI solutions.
- Led Data Mesh adoption and designed enterprise data products for observability and governance across distributed teams.

NTT DATA — Client: Itaú Unibanco, Latin America's largest private bank

Data Engineer

APR 2021 — JUL 2022

- Translated Brazilian Central Bank regulatory requirements into production-grade, cloud-native data systems.
- Built ETL pipelines and Infrastructure-as-Code solutions on AWS (Lambda, Glue).
- Designed a rule-based architecture that absorbed frequent regulatory changes without modifying core logic.

// PROJECTS

Coffee RAG — live retrieval-augmented generation system over James Hoffmann's World Atlas of Coffee: FAISS, sentence-transformer embeddings, and Llama 3.3 70B for grounded generation — live at maricortes.xyz.

// EDUCATION & LANGUAGES

Postgraduate Certificate, Data Science, BI, Big Data & Analytics — Uniderp University, Brazil

Bachelor's Degree, Civil Engineering — ESAMC University, Brazil

Portuguese — Native · English — Advanced · Spanish — Advanced