

SINHUE SIORDIA MILLAN

Data Scientist & MLOps Engineer | MS. Bioengineering & Intelligent Computing

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SUMMARY

Data Scientist and MLOps Engineer specializing in Machine Learning lifecycle (**End-to-End**). Solid experience in developing ETL/ML pipelines with **Azure Databricks** (Delta Lake, Unity Catalog), deploying services with **FastAPI/Docker**, logging in **Vertex AI/MLflow**, and monitoring Data/Concept Drift with **Evidently AI**. Technical Leadership as a Tech Lead in cloud architectures (**GCP/Azure/AWS**), and solving high-impact problems in retail, finance, and health.

WORK EXPERIENCE

Data Scientist and MLOps Engineer

2026 – Present

Artificial Intelligence & MLOps Projects

Culiacan, SIN.

- **MLOps Pipeline End-to-End:** Design and implementation of End-to-End work in Docker containers with data versioning in **AWS S3** with **DVC**, experiment tracking with **MLflow**, and automated unit tests with **PyTests**.
- **Deployment & Monitoring of MLOps Pipelines:** CI/CD orchestration for API deployment with **FastAPI** on GCP **Vertex AI**, integrating continuous monitoring of data/concept drift with **Evidently AI**.
- **Data Engineering con Databricks:** Development of ETL Job Workflows with Medallion architecture in **Azure Databricks** and **ACID** storage in **Delta Lake** for scalable analytics.
- **Machine Learning Modeling:** Implementation of supervised classification models for bank credit renewal propensity, extracting key patterns to optimize commercial campaigns and reduce advertising costs.

Tech Lead & Software Architect

2023 – 2026

Coppel S.A. de C.V.

Culiacan, SIN.

- Lead multidisciplinary teams using agile methodologies (Scrum), coordinating technical architecture, code reviews, and compliance with clean code standards.
- Manage CI/CD pipelines in **Azure DevOps** and supervise high-availability production deployments in hybrid environments (**Red Hat Linux** and **Google Cloud Platform**).
- Design and implement corporate proxy APIs using **Google Apigee** and integrate multi-factor authentication schemes (IDC).
- Build UML diagrams and estimate architectural impacts.

Quality Engineer (Lean Six Sigma Black Belt)

2028 – 2020

Continental Automotive S.A. de C.V.

Guadalajara, JAL.

- Apply advanced statistical analysis and Lean Six Sigma methodologies for root cause resolution in critical high-precision automotive manufacturing processes.

TECHNICAL SKILLS

MLOps & Orchestration

MLflow, DVC, Docker, FastAPI, Evidently AI, Vertex AI, Azure DevOps, CI/CD, Lakeflow Jobs, Apache Airflow.

Data Science & Deep Learning

Python, Scikit-learn, TensorFlow, Keras, PyTorch, Transformers, LLMs, NLP (NLTK, Bi-LSTM, Word2Vec, GloVe), Pandas, NumPy.

Data Engineering & Big Data

Azure Databricks, PySpark, Spark SQL, Delta Lake (ACID, Time Travel), Unity Catalog, PostgreSQL, MySQL, SQL Server.

Cloud & Infrastructure

GCP, Azure, AWS S3, Google Apigee, Red Hat Linux, Git/GitHub, REST Microservices.

Methodologies & Leadership

Agile, Tech Leadership, Clean Code, UML Architecture, Lean Six Sigma.

CERTIFICATIONS

MLOPS Specialization: From Model to Production Environment.

SDMLO-20260131. (2026)

Data Engineering and AI with Databricks.

SDIDIA-20261535. (2026)

Data Science and Generative AI Specialization with Python.

SDIAG-20260816. (2026)

Lean Six Sigma Black Belt Certificate from the Lean Six Sigma Institute.

BB-D01120. (2016)

EDUCATION & GOALS

Master's degree in Bioengineering and Intelligent Computing

University of Guadalajara | 2020–2022

Thesis about NLP, Machine Learning (**SVM, RF**) & Deep Learning (**Bi-LSTM**) applied to clinical records. **1st Place Graduate Student Contest** (44° CNIB 2021) & Published Paper (**Diagnostics** 2022).

Bachelor in Mechatronics Engineering

Institute Technology of Culiacan | 2010–2015

Professional License: 9803001