Alexis Alejandro Martínez Suárez

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PROFILE

Final semester **Computer Engineering (Data Science track)**, Focus on **Python automation**, **supervised modeling**, and **model traceability (MLflow)**. Built **end-to-end pipelines** and simple apps that turn data into decisions.
Internship availability: immediate (Aug 2025). Expected graduation: Dec 2025.

EDUCATION

BEng in Computer Engineering (Data Science track) — Cerrillos, RM | Mar. 2022 – Present
DUOC UC – Plaza Oeste
Coursework: Business Intelligence; Data Modeling; Software Architecture; Software Quality; Project Management; Requirements Analysis and Planning

Technician in Business Administration (HR emphasis) — Peñaflor, RM | 2020
Colegio Comercial de Peñaflor

CERTIFICATIONS

TOEIC | 980/990 – C1 English (MCER) — ETS | Dec. 2024

TECHNOLOGIES AND TOOLS

Core
Python (pandas, numpy, scikit-learn), SQL, Git/GitHub, Jupyter/Colab, MLflow.

In projects
TensorFlow/Keras *(CIFAR-10; LSTM en Sentiment140)*, Flask, Power BI, Matplotlib, CI *(GitHub Actions)*.

Basic
Docker, PyTorch *(AE baseline in HDFS)*.

PROJECTS

HDFS LOG ANOMALY DETECTION (BLOCK-LEVEL)

Python, scikit-learn, Hashing Vectorizer, SGD Classifier, Platt, GitHub Actions

Developed a vocabulary-less streaming pipeline for HDFS logs;
AUC-PR 0.755, ROC-AUC 0.891, F1 0.747 with **3% posrate** in CPU (<13 GB).
Automatization with CI (GitHub Actions) and Colab demo for reproducibility.

Expected Impact: Early warnings at block level → less diagnosis and downtime.

BANK CHURN WITH MLOPS

Python, scikit-learn, MLflow, Pandas, Matplotlib, argparse

Developed a **modular** and **reproducible** pipeline (cleaning, features, encoding, scaling, RF) with **MLflow** for metrics/artifacts/versioning.
Results: F1 and recall ≥ 0.96 on controlled trial data.

Expected Impact: Prioritization of at-risk customers for retention campaigns.

RAIN PREDICTION + WEB APP

Python, Pandas, scikit-learn, Flask, HTML, pickle

I trained a classification model with **88% accuracy** to predict rain using real data, and developed a **Flask app** to display the results in a way that is accessible to non-technical users.

Expected Impact: Simple operational decisions (daily planning).

SKILLS AND INTERESTS

Soft Skills

- Technical Communication *(demos/README)*
- Teamwork *(Gitflow/PRs)*
- Autonomy and continuous learning
- Result-orientation *(metrics → business)*
- Organization *(reproducible pipelines, MLflow)*

Topics of Current Interest

- Lightweight MLOps *(monitoring and drift)*
- Calibratión / AUC-PR
- FastAPI Serving
- Feature engineering for logs
- Learning with unbalanced classes

TECHNICAL PRESENCE

Open Source: Public repos with licenses (MIT/Apache-2.0), CI (GitHub Actions), reproducible demos.
Divulgation: Technical posts on LinkedIn with links to repos and results.

LANGUAGES

Spanish: Native.
English Fluid - C1 (CEFR).