

# MARTÍN RÍOS

## DATA DEVELOPER / AI ENGINEER

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In the range of opportunities, I prioritize those where learning is necessary. I choose to work on projects that challenge me, force me to adapt and learn those things that I am interested on. On a second level, I have a penchant for those projects that have a social impact. I value working in multidisciplinary teams, surrounded by colleagues who are more knowledgeable and experienced than me, motivated by goals and with an open communication tone.

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## PROFESSIONAL EXPERIENCE

### DATA DEVELOPER | AI ENGINEER | MLOPs | CV | CLOUD

FREELANCE | March 2023 - Present

- **Eye Training App:** Developed a Streamlit app for cognitive training based on data from videos, CV techniques (mainly pose estimation algorithms) and also from Pupils Labs Eyeglasses (<https://pupil-labs.com/products/core>). Data was processed, stored and displayed in a dashboard with some viz. Backend developed on FastAPI.
- **Wildfire Detection System:** End-to-end computer vision pipeline integrating image acquisition, manual/automated labeling workflows, versioned dataset management, and model training infrastructure. Independently implemented comprehensive client onboarding protocols and optimized inference services for object detection, pose estimation, and segmentation across multiple computer vision tasks.
- **Medical AI Agent** (*in progress*): Memory-Enhanced RAG Chatbot for a medical app that delivers personalized obesity treatment. The system integrates cognitively-inspired memory types—short-term, semantic, episodic, and procedural—to maintain conversation context, recall patient history, and guide treatment steps. Built as a solo developer, I designed and deployed a flexible, production-grade AI architecture.

Technologies: AWS (Sagemaker, Lambda, ECS, DynamoDB, Kinesis), Terraform, YOLO, Streamlit, DuckDB, Mongo, FastAPI, Mediapipe, Llamaindex, LangChain, Redis, ChromaDB, MongoDB, Neo4j, Qdrant.

### DATA SCIENTIST

ENCORA | September 2021 - March 2022

Helping clients/stakeholders take data-driven decisions. As a interdisciplinary Data Scientist, I leverage my problem-solving mindset and creativity to approach any problem. After identifying needs and goals, I work on the design and implementation of the best solution, to finally communicate efficiently results and next steps.

- Retail Company: Working on Data Strategy team. Building ML Pipelines, following the best DevOps practices. Also building pipelines to extract, preprocess and load external data on the company's DW.

Technologies: Azure (ML Studio, DevOps, Databricks), PySpark, PyTorch Ecosystem.

### ML ENGINEER

Froneus | March 2021 - September 2021

Building and deploying NLP classification models to get information from the interaction between a VoiceBot with a person. Focusing on the productionalization of the model, serving it with high performance API and ready to scale. Monitoring of model drift

Technologies & Frameworks: Scikit-Learn, Spacy, Rasa, FastAPI, MLFlow, MongoDB.

## **Data Scientist | RESEARCHER**

**Water National Institute (Argentina - INA) | March 2020 - March 2021**

Development of an urban flood model for early decision-making during flood events in critical basins of Buenos Aires (RMBA). The problem was approached with a graph-based surrogate model of the basin, and we are working on the design and implementation of a neural network model for spatio-temporal estimations of water levels.

Abstract and poster presented on the IAHR YPN 2020.

Technologies & Frameworks: Scikit-Learn, PyTorch Geometric, NetworkX, Dash, PostgreSQL, Neo4j.

## **DATA ENGINEER**

**GaloAI | October 2019 - October 2020**

Development of an ETL pipeline to process data from various sources, such as XLS and APIs and stored them in BigQuery GCP.

Technologies: SQL, Airflow, DataPrep and BigQuery.

Volume: ~1M rows monthly

## **RESPONSIBLE OF DATA PROGRAMS**

**Digital House | March 2018 - March 2020**

- Scaled the number of courses from 3 to 16, with ~25 students each.
- Worked on the development of 2 online courses (Data Analytics and Data Science). Video Lectures and online exercises.
- I was responsible for all the operation, lead a team of 12 professionals and had active collaboration with the sales department.

## **DATA SCIENCE INSTRUCTOR**

**Digital House | May 2017 - March 2018**

During the course the students learn the basis of ML and develop some projects where they put into practice the skills learned.

- Data Manipulation: Numpy, Pandas y SQL
- APIs y Web Scrapping
- Machine Learning

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## **EDUCATION**

### **AI & Data Science Training | Graduated with Honors**

**DS4A - Correlation One & Softbank | March 2020 - July 2020**

Over the 10 weeks of the program, we developed skills like querying big data, robust linear modeling and advanced machine learning, working on hands-on projects of real world cases, from various industries. The Lead Instructor was Natesh Pillai of Harvard University and program entry was merit-based.

### **Civil Engineer**

**Universidad de Buenos Aires | March 2009 - August 2018**

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## **LANGUAGES**

- **Spanish:** Native
- **English:** Advanced writing and speaking.
- **Portuguese:** Beginner speaking