

Nicolás Ignacio Fredes Franco

Nicolás Fredes
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EDUCATION

Federico Santa María Technical University

Valparaíso, Chile
B.S. in Electronic
Engineering

M.S. in Electronic
Engineering

GPA: 92%
Specialty: Machine Learning.
Thesis: "Protein functions
prediction using Deep Learning."

PAPERS & WORKSHOPS

DOI: 10.1109/ACCESS.2021.3094723

SKILLS

LANGUAGES

Spanish Native Speaker
English Level CEFR C1

EXPERIENCE

Lead Artificial Intelligence Engineer

Remote, USA

Since January 2026

Integrating AI to intelligently match 8
using LangChain and Google-ADK,
complex industrial workflows.

Senior Machine Learning Engineer

Las Condes, Chile

November 2025 - January 2026

Architecture for an agentic
(pulp mill plant), reducing end-to-end

Lead Data Scientist

Remote, Mexico

September 2024 - October 2025

Developing algorithm for predicting
levels of temporal granularity. This
advance for intervals of 15
seconds, achieving results with an R^2

Decision-based model (leveraging
time series) to identify
optimal generative LLM. This
model for AI agents to explain variable
processing. It processed data
in 10 seconds.

Computer Vision Engineer

Santiago, Chile

February 2024 - September 2024

Integrating security cameras in self-
service stores in Mexico and OXXO. The algorithm
detects people paying for only a
product. It was capable of
running on Nvidia Jetson Xavier, with each
second, the alert delay time on the

Senior Data Scientist

Remote, USA

May 2023 - October 2023

Analysis across both physical
and digital data, estimating cross
correlation for their price strategy.

Senior Data Scientist

Quilicura, Chile

November 2021 - November 2022

Developed (Python) for e-commerce products
recommendation system with a latency of up

Used algorithms to evaluate the annual change
in the price of products considered by 200%.
Analyzed competitors' promotions price
and increasing its accuracy

Artificial Intelligence Specialist

Valparaíso, Chile

January 2020 - November 2021

Developed a system to replace the fault
detection system of a Torre S.A. production line. Switching from faulty
manual registration with 10-minute delays to an automated method of vision
algorithms connected to a unified database with real-time data availability
with a maximum delay of 1 second and 95% accuracy.