

Rodrigo Kang

Physicist | Data Scientist

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Work Experience

Lead Data Scientist

Mar 2025 - Present

YPF Tecnología S.A. (Y-TEC)

Lead R&D solutions integrating ML, RL, optimization, and Quantum Computing for O&G. Applied AI across predictive modeling, production optimization, and computer vision.

CRM Supervisor

Jan 2025 - Mar 2025

Cencosud S.A.

Managed CRM team to enhance segmentation, churn prediction, and recommendation systems. Oversaw ML model development and deployment using Python, SQL, and AWS.

Data Scientist

Jul 2023 - Dec 2024

Cencosud S.A.

Built predictive models, recommendation systems, and churn prediction using Python, SQL, and AWS SageMaker to support retail strategy.

Gas Trading & OR Analyst

Apr 2020 - Jul 2023

ECS S.A. - ENGIE GROUP

Designed commercial strategies and optimization algorithms for natural gas markets using Python, LP, and graph theory.

Programming & Balancing Analyst

Dec 2017 - Mar 2020

TGN S.A. - TECHINT GROUP

Analyzed daily pipeline data, prepared balance sheets, and controlled operational imbalances ensuring regulatory compliance.

Education

M.Sc. in Physics

Dec 2021

Universidad Nacional de La Plata

Graduated with honors (GPA: 8.40/10). Specialized in Quantum Optimal Control Theory.

Doctor of Philosophy - PhD in Physics (not completed)

Dec 2024

Universidad Nacional de La Plata

Research in hadronic physics, focused on pion production mechanisms via neutrino scattering.

Projects

Data Science Portfolio

Ongoing

Data analysis, predictive modeling, ML, DL, RL & AI projects

A collection of projects exploring customer analytics, financial modeling, churn prediction, feature engineering, and model interpretability, connecting data-driven insights to strategic decision-making.

Quantum Computing Portfolio

Ongoing

Quantum algorithms, simulations & optimization projects

Projects focused on applying quantum algorithms to solve complex problems, simulate quantum systems, and provide insights at the intersection of physics, mathematics, and computer science.

Physicist and Data Scientist with extensive experience in machine learning, reinforcement learning, quantum optimal control theory, and computational modeling. Strong background in probability, statistics, linear algebra, advanced mathematics, quantum computing, and computational physics. Skilled in leading scalable projects and supporting data-driven decision-making through innovative, consistent, and effective solutions that bridge scientific insight and applied AI.

Technical Skills

Python

NumPy, SciPy, Pandas, Scikit-learn, PyTorch, TensorFlow

SQL

PostgreSQL, AWS Redshift

AWS & Azure

SageMaker, Redshift, Azure ML, Azure AI

Linux

Bash scripting

Git

Version Control

Other

LaTeX, R, C++

Languages

Spanish

Native Proficiency

English

Professional Proficiency (C1)

Certifications

Azure AI Fundamentals

Microsoft, Feb 2025

AI Masterclass

Udemy, Feb 2025

Quantitative Finance

UCEMAX, Nov 2023

Probability and Statistics

UNLP, Dec 2021