

ALI NAVARRO HEREDIA

Data Scientist & Full-Stack Data Engineer

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Open to remote roles | Fluent English (18 months living in the U.S.) | Full overlap with U.S. business hours | Independent contractor (W-8BEN), paid by ACH to a U.S. bank account

PROFESSIONAL SUMMARY

Data scientist and data engineer with an economics background, building competitor pricing intelligence end to end: containerized scraping workers on Google Cloud Run, PostgreSQL data stores, fine-tuned BERT classifiers, Bayesian pricing models, and the Power BI layer executives read them through. Four years across enterprise business intelligence, applied machine learning, and freelance delivery for U.S. clients, with 100% Job Success on Upwork. University lecturer in Operations Research, ranked 5th of 65 candidates in the faculty chair examination.

TECHNICAL SKILLS

Languages and Databases: Python, SQL, PostgreSQL, R, JavaScript, VBA

Data Engineering and Cloud: ETL/ELT pipelines, web scraping, Docker, Google Cloud Run, Supabase, Vercel, microservices

Machine Learning and Statistics: NLP and text classification, BERT and Sentence Transformers, supervised contrastive learning, Bayesian inference, time-series forecasting, LLM integration (Gemini API), prompt engineering

Business Intelligence: Power BI, DAX, Power Query (M), semantic data modeling, dataflows, scheduled refreshes, paginated reports, Excel and VBA

Quantitative Methods: Econometrics, operations research, linear and nonlinear optimization, NPV/IRR feasibility modeling, sensitivity analysis, debt service simulation

PROFESSIONAL EXPERIENCE

Data Scientist & Full-Stack Data Engineer

Mar 2025 - Present

Grupo Mayoreo, multi-brand retail and wholesale conglomerate - Venezuela (Hybrid)

- Architected an automated competitor price-monitoring platform with zero upfront infrastructure cost by splitting the system into Dockerized Python scraping workers on Google Cloud Run, a Supabase/PostgreSQL backend, a bounded Gemini API enrichment layer, and a Vercel front end.
- Produced exact executive cost projections by benchmarking resource consumption before scaling, proving return on investment before the company committed capital.
- Replaced manual and heuristic categorization of unstructured import product descriptions with an automated pipeline by fine-tuning a BERT/Sentence Transformer multi-class classifier over an 8-month development cycle, unlocking granular market share and competitor pricing analysis.
- Replaced binary competitiveness flags with a continuous score by designing a Bayesian price-gap model that preserves gap magnitude, cross-vendor dispersion, and estimation uncertainty, giving marketing a signal precise enough to prioritize reviews.
- Keep the pricing database analysis-ready through automated cleaning and classification routines on weekly review cycles.

University Lecturer, Operations Research

Apr 2025 - Present

University of Carabobo, School of Economics - Venezuela (Part-time)

- Teach linear programming and optimization models to economics undergraduates, connecting formal method to applied decision-making.
- Scored 42/45 on the 2024-2025 faculty opposition contest examination in Quantitative Methods for Economics - the 5th-highest result among 65 candidates across every school in the faculty.

Data Scientist & BI Consultant (Freelance)

Nov 2023 - Present

Upwork, U.S. client portfolio - Remote

- Maintain a 100% Job Success score serving U.S.-based clients.
- Built web-scraping pipelines feeding real-time financial Power BI dashboards, giving clients current figures without manual collection.
- Removed recurring manual extraction work by automating database-to-Excel reporting pipelines and client onboarding workflows.

Business Intelligence Specialist

Apr 2022 - Mar 2023

Grupo Mayoreo - Valencia, Carabobo, Venezuela

- Managed Power BI semantic models and datasets across a multi-brand retail and wholesale conglomerate.
- Authored advanced M (Power Query) transformations and complex DAX measures, and deployed enterprise dataflows with scheduled refreshes.
- Delivered paginated executive reports used for recurring management reporting.

SELECTED PROJECTS

Cloud-Native Pricing Architecture Demo - privacy-safe reconstruction of the production price-monitoring system, showing the service split without exposing client data, credentials, or vendor-specific logic. Docker, Google Cloud Run, Supabase/PostgreSQL, Gemini API, Vercel. github.com/Harrypoker777/pricing-scraping-architecture-demo

BERT Import Classification Demo - sanitized text classification pipeline for limited labeled data: supervised contrastive training, balanced multi-class head, grouped evaluation, calibrated confidence thresholds routing uncertain predictions to review, and immutable Parquet/CSV exports. github.com/Harrypoker777/bert-import-classification-demo

Bayesian Price Competitiveness Demo - continuous competitiveness scoring from competitor price gaps, keeping estimation uncertainty visible instead of collapsing every comparison to a hard threshold. github.com/Harrypoker777/bayesian-price-competitiveness-demo

EDUCATION

Bachelor of Science in Economics (Licenciatura en Economía)

2022

University of Carabobo - Valencia, Venezuela

Graduated with honors in Market and Project Evaluation (18/20).

Faculty Opposition Contest, Quantitative Methods for Economics

2024 - 2025

University of Carabobo, Faculty of Economic and Social Sciences

Scored 42/45 on the knowledge examination for a tenure-track chair - the 5th-highest result among 65 candidates faculty-wide.

Certification: Python for Data Analysis, DataCamp. **Languages:** Spanish (native), English (fluent, spoken and written - lived in the United States for 18 months).