

ABOUT ME

Data scientist and MLOps engineer with a background in mathematics, specialised in probability and statistics. I build predictive models and the production systems around them: versioned data, tracked experiments, promotion gates, containerised APIs on Kubernetes and drift monitoring.

I evaluate every model on data it has never seen, against a simple baseline, and document the decisions behind it so that others can review and maintain the work.

SOFT SKILLS

- Explaining results to non-specialists.
- Technical writing and documentation.
- End-to-end ownership.
- Teaching and mentoring.
- Analytical thinking.
- Teamwork and collaboration.

CONTACT

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Armando Guarnera

Santiago del Estero, Argentina.

github.com/arguar13

Armando Guarnera

DATA SCIENTIST AND MLOPS ENGINEER

ACADEMIC BACKGROUND

BACHELOR'S DEGREE IN MATHEMATICS
Universidad Nacional de Santiago del Estero
Probability, Statistics and Mathematical Modelling, 2024

EXPERIENCE

DATA SCIENTIST AND MLOPS ENGINEER
Independent: armandoguar.com, github.com/arguar13
2024 to present

- Built and deployed 3 end-to-end MLOps systems on AWS (forecasting, predictive maintenance, classification) with Terraform, EKS, RDS, S3 and ECR.
- Worked local first: every change ran on Docker Compose and LocalStack before reaching AWS.
- Set up CI/CD in GitLab CI (OIDC to AWS) and GitHub Actions, with promotion gates and drift monitoring.
- Completed 10 more ML, deep learning and analytics projects (PyTorch, SQL, MongoDB, Tableau), each with a written case study.

TEACHING ASSISTANT, PROBABILITY AND STATISTICS
Universidad Nacional de Santiago del Estero
May 2021 to March 2023

- Taught practical sessions on inference, distributions and modelling.
- Designed exercises and study guides for the course.
- Gave one-on-one support to undergraduate students.

TECHNICAL SKILLS

Statistical Analysis: Descriptive and inferential statistics, linear models, ANOVA and hypothesis testing.

Machine & Deep Learning: Scikit-learn, XGBoost, LightGBM, CatBoost, PyTorch, Optuna; time series, vision, clustering.

MLOps: DVC, MLflow, FastAPI, Docker, Kubernetes (Kustomize, HPA), Terraform, AWS (EKS, RDS, S3, ECR), LocalStack, GitLab CI, GitHub Actions, Pandera, pytest.

Data Management & EDA: Cleaning, transformation, leakage-free pipelines and exploratory analysis.

Python: Pandas, NumPy, SciPy, Pydantic, structlog.

Data Visualization: Tableau, Streamlit, Matplotlib and Seaborn.

ADDITIONAL KNOWLEDGE

- SQL (PostgreSQL, star schemas) and NoSQL (MongoDB) database design and optimisation.
- Linux and bash scripting; security fundamentals (ISC^2 Certified in Cybersecurity).
- Certifications: Johns Hopkins, IBM, HKUST, University of Michigan, Google.