

Nicolás Aller Ponte

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Education

Universidade da Coruña, Bachelor's Degree in Data Science and Engineering – A Coruña, Spain Sept 2022 – present

- Knowledge of the complete data lifecycle: HPC, statistics, data engineering, databases, and AI.

Experience

Research Assistant, Inditex-UDC Chair of AI in Green Algorithms – A Coruña, Spain Nov 2025 – present

- Research assistant at the Inditex-UDC Chair of AI in Green Algorithms.
- Development of feature selection systems for AI models.

AI Engineer, Gradient – A Coruña, Spain Sept 2025 – Oct 2025

- Development of a car damage detection system.
- Development of an evaluation system for car accident reports.

Languages

Proficiency: Spanish (Native), Galician (Native), English (Intermediate), German (Basic)

Skills

Data Engineering & Cloud: Python, R, SQL, MongoDB, Docker, Git, Spark, AWS, GCP

AI & Deep Learning: PyTorch, TensorFlow, Keras, Scikit-learn, Computer Vision, NLP

HPC & Systems Programming: C, C++, Parallel Computing (OpenMP, MPI), Computer Architecture, CUDA

Awards

First Place — Best Use of Open Source AI (HackUDC 2026): Recognition for the integration and optimization of open-source models (SigLIP, DINOv2) in a scalable production environment.

Second Place — Inditex-Tech Challenge (HackUDC 2026): Finalist among 30+ teams for developing a visual search engine for massive fashion catalogs.

Projects

Personal Portfolio – Online

- Personal portfolio showcasing academic and personal projects.

Outfit Intelligence — HackUDC – A Coruña, Spain Sept 2025

- Multi-layer visual search pipeline using YOLOv8 and SigLIP-384 to identify catalog products in outfit images.
- Model fine-tuning with contrastive loss and cross-validation, combining SigLIP and DINOv2 in an ensemble to improve accuracy.
- Recommendation engine using FAISS and a REST API with FastAPI on a catalog of 27,000+ products.