VALERIA MICOL GARCIA

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Portfolio: https://valemicolgarcia.github.io - **Github:** https://github.com/valemicolgarcia
Linkedin: https://www.linkedin.com/in/valeria-micol-garcia-72a653267/
Citizenship: Spanish (EU Passport) & Argentine

SUMMARY

Computer Engineering student (98% complete) specializing in AI Engineering and Backend development. Currently learning and implementing agentic workflows with LangGraph, RAG systems, and computer vision pipelines with PyTorch. Technical background includes serving as a University Teaching Assistant for Data Structures and researching OOP-based Python frameworks at LEICI lab.

WORK EXPERIENCE

Machine Learning Research Fellow - LEICI - Universidad Nacional de La Plata (UNLP)

- Developed an end-to-end machine learning pipeline and an OOP-based Python framework to synchronize and process multi-modal physiological data from wearable sensors.
- Engineered Random Forest classifiers using a mixed-dataset training strategy for data augmentation, achieving 0.78 global accuracy in discriminating between exercise and stress events (critical factors in glucose management) within real-world ambulatory settings.

Teaching assistant - Programming 2 - Universidad Nacional de La Plata (UNLP)

- Supported students in mastering advanced programming concepts including recursion, non-linear data structures (trees), and memory management.

PROJECTS - *Models and full documentation available in my portfolio*

- Nutrition Label Agent (LangChain, LangGraph, Gemini Vision, Tavily, FastAPI, Pydantic)
- Zero-Shot Object Detection Service (PyTorch, TorchVision, Transformers, Grounding DINO, FastAPI)
- RAG Service (LlamaIndex, Groq, Llama 3.1, Hugging Face Embeddings, FastAPI)
- Scientific Research: T1D Stress & Exercise Detection (Random Forest, Multi-modal Data Fusion, Signal Processing, OOP-based ML Pipelines, Data Augmentation)
- Heart Disease Prediction (Logistic Regression, XGBoost, Random Forest, Hyperparameter Tuning)
- Song Popularity Prediction (Linear Regression, Data Cleaning - Exploratory Data Analysis)
- Stress Detection - Natural Language Processing - Neural Networks - Deployed on Hugging Face
- Cats and Dogs Image Classifier (Convolutional Neural Networks)
- Book Recommendation (K-Nearest Neighbors)
- SMS Text Classifier (Natural Language Processing - Recurrent Neural Networks - LSTM)

EDUCATION AND CERTIFICATIONS

Bachelor's Degree in Computer Engineering
Universidad Nacional de La Plata
Expected Graduation: [July, 2026]
GPA: 8.5 / 10
Status: 98% (1 subject pending)

First Certificate in English (FCE)
Cambridge University [March,2024]

TOEFL iBT - B2 level
ETS [December, 2025]

Data Science I, II, III: Data Science, Machine Learning, NLP & Deep Learning
CoderHouse [January - August, 2024]

Machine Learning with Python
freeCodeCamp [July, 2024]

AWS Course - SQL Course
CoderHouse [October, 2024 - January 2025]

Backend I, II
CoderHouse [January, 2025]

SKILLS

- AI & Agents: LangChain, LangGraph, LlamaIndex, RAG, Agentic Workflows.
- Machine Learning & DL: Random Forest, XGBoost, PyTorch, Scikit-learn, TensorFlow, CNNs, RNNs, NLP, Signal Processing.
- LLMs & Vision: Google Gemini (Multimodal), Llama 3.1 (Groq), Hugging Face Transformers, Grounding DINO.
- Programming Languages: Python (Advanced), SQL, C, Java, Assembly, MATLAB.
- Backend & Tools: FastAPI, Pydantic, REST APIs, Docker, Git, AWS, Supabase.
- Data & Analytics: Pandas, NumPy, Data Preprocessing, Data Visualization, Statistics & Probabilities.
- Languages: English (B2 - FCE/TOEFL), Spanish (Native).
- Soft Skills: Teamwork & Collaboration, Technical Communication, Adaptability, Problem Solving.