

Agostina Vidal Villanueva

Artificial Intelligence Researcher | Quantitative Researcher

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Profile

Artificial Intelligence graduate with strong foundations in quantitative modeling, data engineering, and real-world AI implementation. Builder of deployed AI tools including a Python tutor chatbot and custom sentiment analyzer. Participated in four major hackathons, including ETH Datathon 2025. Focused on translating complex systems into elegant solutions.

Technical Skills

- **Languages:** Python, Julia, SQL, R
- **Libraries & Tools:** Pandas, scikit-learn, NLTK, Flask, Jupyter, Heroku, TensorFlow, Keras
- **Core ML Techniques:** Classification, Regression, Time Series Forecasting, Feature Engineering, Sentiment Analysis, Rule-Based Systems
- **Other:** Git, Public Speaking, Multilingual (EN/ES/IT)

Education

Bachelor in Artificial Intelligence Oct 2022 – Apr 2025 (expected)

Johannes Kepler University Linz, Austria

- Focus areas: Machine Learning, Statistical Modeling, Computational Statistics
- Bachelor's thesis: Applying Reinforcement Learning to decision-making scenarios under incomplete information

International Summer Academy in Engineering for Women

July 2023

University of Applied Sciences Upper Austria

- Two-week program focused on applied engineering and interdisciplinary teamwork

Projects

News Sentiment Analysis App

- Built a lightweight web app that performs sentiment analysis on text using a custom keyword-based sentiment dictionary
- Deployed as a Heroku web app with interactive charts; tested on 100+ real-world text inputs
- [Live Demo](#) | [GitHub Repository](#)

Python Tutor Chatbot

- Built and deployed an NLP-based chatbot to guide Python beginners through 20+ custom logic rules
- Implemented error detection, code feedback, and keyword matching using NLTK and Flask
- [Live Demo](#) | [GitHub Repository](#)

Argentina Elections Dataset Project

- Compiled and cleaned 10+ raw files of national election data (1983–2019) into a unified dataset
- Processed 2,000+ records into standardized format for time-series and comparative analysis
- [GitHub Repository](#)

ETH Analytics Club Datathon (ALPIQ)

- Developed forecasting pipeline for electricity consumption from smart meter data
- Worked on time series modeling, preprocessing, and tuned models for multiple customer profiles
- [GitHub Repository](#)

Hackathons & Leadership

- **Female Coders Hackathons** (2022, 2023 – Participant | 2024 – Mentor)
- **ETH Datathon 2025** (Alpiq energy challenge)
- **Mentor, Female Coders Austria** — Helped guide projects during hackathons and events

Certifications & Languages

Certifications:

- Introduction to Docker (2024)
- Introduction to Generative AI Badge (Google Cloud, 2023)
- Unsupervised Learning in Python (DataCamp, 2022)
- Cambridge English CAE (C2 Level, Grade A)

Languages: English (C2) • Spanish (C2) • Italian (C2) • Portuguese (A2) • German (A1)