

JOSE ARBELAEZ

DATA SCIENCE & ENGINEERING
STUDENT

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SUMMARY

UAM Data Science & Engineering student (entering 4th year) focused on **reinforcement learning and generative modeling**. Built from-scratch DQN/PPO (modular, reproducible) and diffusion SDE pipelines, plus a portfolio-monitoring web app that won the **1st Prize at the UAM Investors League** (team of 4). **Founder & President of GDG On Campus UAM**; seeking Data Science/ML internships in RL, agentic systems, or quantitative research.

EDUCATION

Data Science & Engineering degree

UAM, Spain • Sep 2022 – Jul 2026

- **Founder & President, Google Developer Group (GDG) On Campus UAM (Jul 2025–Present)**: Lead workshops, talks, and community events on AI and agents.
- **Member of the Board of Directors, Information Security Association (2023–2024)**.
- **Average Grade (2024–2025): 8.5/10**.

PROJECTS & COMPETITIONS

Generative AI Diffusion Models Project (2024 - 2025)

- **From-scratch implementation of SDE-based diffusion models** (following Song et al.): built forward/reverse SDEs, VP/VE/Sub-VP generative samplers, and a **reproducible training pipeline**. Code, experiments, and write-up available on my portfolio and Github.

UAM Investors League – Team Lead & 1st Prize (2024– 2025)

- With hands-on portfolio/quant knowledge since 2022, led a 4-person team to **win our first league in 2025**; managed multi-fund portfolios and built a **portfolio-monitoring web app** – code/demo on GitHub and my portfolio.

Reinforcement Learning Benchmarks from Scratch (2025–Present)

- Building a **modular, reproducible RL stack in PyTorch** (Gymnasium-compatible) with Hydra configs, experiment runners and multi-env evaluation; unit tests, type hints and CI. Full code, docs and demos on GitHub.

Independent Entrepreneur - Imported Clothing Business (2021–2024)

- Managed an imported clothing business and online store. I shifted focus to Data Science and Engineering studies.

SKILLS

- **Programming Languages:** Python (PyTorch, TensorFlow, scikit-learn, NumPy, Pandas), R, MATLAB, Java, JavaScript, MQL5.
- **Data Science & Machine Learning:** Generative AI (Diffusion Models), Neural Networks, Deep Learning, Regression, Classification, Clustering, Data Modeling, Statistical Analysis, Reinforcement Learning.
- **Web & App Development:** Full-Stack Development (Frontend/Backend), API Design, Database Management.
- **Quantitative Analysis:** Financial Modeling, Automated Portfolio Management, Benchmarking.

LANGUAGES

- English: B2
- Spanish: Native