Iñaki Madinabeitia

AI Engineer

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Open to relocate.

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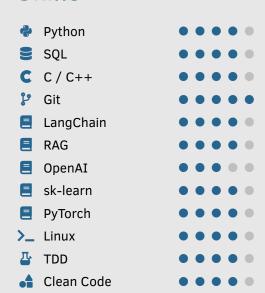
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Strengths

Public speaking Analytic reasoning Teamwork Communication skills Problem-solving Advanced skills

Skills -



Languages

Spanish: Native.

English: Native.

About me

Computer Scientist and Mathematician specialized in AI and Machine Learning. My experience in teaching University classes gave me a more solid foundation of skills that I apply to software programming. I am passionate about LLMs and research, professional, and willing to learn how to design, develop, and implement AI solutions that integrate into clients' customer support systems.

Working Experience

2021 – 2025 University Instructor - ENG, BESS programs.

> University instructor for US students at International Education of Students Abroad linked with University Carlos III of Madrid (UC3M),

demonstrated full command of English. Courses taught:

Artificial Intelligence

Machine learning fundamentals, neural networks and deep learning (CNNs, RNNs, Transformers), with hands-on labs implementing solutions in Python and PyTorch.

Statistics Theory

Statistics and probability techniques for data analysis, prediction & Probability model, hypothesis testing and Bayesian inference (prior/posterior distributions for ML systems), focused on economics processes.

Game Theory Applications to multi-agent systems and AI, adversarial machine learning (Nash equilibria, Minimax Theorem) and competition/cooperation (Zero and General sum games) in ML agents.

Linear Algebra Applied to dimensionality reduction/PCA (vector spaces and basis transformations), relevant for NLP embeddings (eigenvalues/eigenvectors), matrix operations and solving linear systems.

Education

2021 - 2023

M.Sc. Advanced Mathematics. **UMA** Interpolation, cryptography, hypothesis testing, mathematic models, stochastic processes. **B.Sc.** Computer Science. 2014 – 2019 UGR AI - ML Specialized. Computing and Intelligent Systems (AI, ML, Neural Networks, Computer Vision). 2014 – 2019 **B.Sc.** Mathematics. UGR

Side projects

Feature Selection - Mix of Mutual Information and Delta Test.

In Python. mRMR MI, Filter algorithms. Comparison of success rate of MI, DT and proposed MI-DT for 1 through 6 variables. Ref: github.com/InakiMadi/Feature-Selection-Mixing-Mutual-Information-And-Delta-Test.

Sudoku solver.

In Wolfram Mathematica using group theory. Ref: github.com/InakiMadi/Sudoku solver.

Research on Open Problems in Combinatorial Geometry.

Research into latest developments. Attempts to improve bounds on Polyominoes and Hadwiger-Nelson. Ref: github.com/InakiMadi/Open-problems-in-Combinatorial-Geometry.

Extra-Curricular Activities

In-person and online charity events for a community of \sim 100 peo-Lead events host.