KATYNA SADA DEL REAL

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Spain/Mexico

SUMMARY

Creative Al Engineer with academic and applied experience building machine learning models and performing data analysis. Skilled in designing, deploying, and scaling ML workflows; adept in model explainability, Al pipelines, and prompt engineering.

TECHNICAL SKILLS

Programming: Python (PyTorch, PyTorch Lightning, TensorFlow), SQL, R, Java

AI/ML: DNNs, CNNs, Transformers/LLMs, Autoencoders, Explanability

Platform & Tools: SLURM, Linux (Ubuntu), AWS, Git, Weight & Biases

AWARDS

Methodological Contribution **Award**

Institute of Data Science and Al (2023)

Scholarship for MSc

Banco Santander (2020)

First Prize, B+INVAS Innovation Challenge

Developed a blockchain-based medical records system. (2018) Full Tuition Scholarship for BSE Becas Alumni UNAV (2016)

CERTIFICATIONS

Develop Generative AI Applications & Build RAG Applications

(2025) IBM

Deep Learning Methods for

Healthcare

(2023) University of Illinois

Improving Deep Neural Networks

(2022) DeepLearning.Al

Neural Networks and Deep Learn-

ing

(2021) DeepLearning.Al

Deep Neural Networks with PvTorch

(2021) IBM

EDUCATION

TECNUN, University of Navarre

PhD in Applied Engineering - Artificial Intelligence

MSc in Data Analytics

BSE in Biomedical Engineering

San Sebastian, Spain

2021 - 2025

2020 - 2021

2016 - 2020

PROFESSIONAL EXPERIENCE

Artificial Intelligence Engineer

Allclaims Pro Public Adjusting

01/25 - Present **Q** VA, USA

Developing LLM-based tools with prompt engineering and RAG workflows, and collaborating with teams to integrate these solutions, enhancing decision-making processes and business workflows.

Postgraduate Researcher / PhD Candidate

TECNUN, University of Navarre

2021 - 2025

San Sebastian, Spain

- Created or fine-tuned ML models for predicting cancer treatment response.
- Served as a Teaching Assistant for undergraduate courses in Data Analytics, High-Performance Computing, Bioinformatics, and Next-Generation Sequencing.

Visiting Researcher

Columbia University Irving Medical Center

09/23 - 02/24 NYC, USA

Preprocessed and normalized biomedical datasets; implemented ML models to predict drug response for patient-derived cells.

Marketing Advisor

Samaika (Family Startup)

(Seasonal: Summers) 2017 - Present MTY, Mexico

Directed brand development and sales strategies, to boost market presence.

PUBLICATIONS

Foundation Models and Deep Learning for Cancer Drug Response Prediction: A Framework for Data, Metrics, and Validation.

Manuscript Under Review (2025)

Sada Del Real, K., Swamy, V., Arcagni J., Wang E., Rabadan, R., & Rubio, A.

Enhancing Tree-Based Machine Learning for Personalized Drug Assignment

Manuscript Under Review (2025)

Sada Del Real, K., & Rubio, A.

Discovering the mechanism of action of drugs with a sparse explainable network.

EBioMedicine (2023)

Sada Del Real, K., & Rubio, A.

Precision oncology: a review to assess interpretability in several explainable methods.

Briefings in Bioinformatics (2023) Gimeno, M., Sada Del Real, K., & Rubio, A.