

JAVIER ALONSO MENCIA

MACHINE LEARNING ENGINEER

"ML Engineer with 3+ years of experience building, fine-tuning, and deploying LLMs for specific use cases. Skilled in data science, MLOps, and end-to-end AI solutions."

EXPERIENCE

San Sebastian, Spain

May 2025 - Now

Madrid, Spain

June 2023 - May 2025

Madrid, Spain

Sept. 2022- June 2023

Getafe, Spain

Feb. 2022 - March 2023

Leganés, Spain

Sept. 2021 - Sept. 2022

Mid-Senior ML Engineer

Multiverse Computing

Working on LLM compression, model training, dataset generation, and delivering custom ML solutions for clients in finance and industry. Applied proprietary compression techniques, fine-tuned models on tailored datasets, and built end-to-end ML pipelines using Docker and cloud platforms.

Data Scientist & ML Engineer

Idealista

Data Scientist & ML Engineer specializing in text and vision, customizing LLMs/VLMs to enhance user experience at real estate platform.

[Skills]

- NLP: Transformer-based models, fine-tuning LLMs, text classification, structured outputs generation, and search optimization.
- Computer Vision: Vision model training, room classification, OCR, fine-tuning VLMs for image captioning.
- Training: Working in both commercial (OpenAI, Vertex AI) and open-source (Hugging Face) environments. Efficient model training using PEFT and Lora. Model compression using quantization techniques.
- Model Deployment: Docker, production-ready pipelines, AWS integration using vLLM, and GPU optimization.
- Model Tracking: MLflow for model tracking, testing, and deployment.
- Data Engineering: Synthetic data generation, dataset creation and curation, and automated model retraining.

Data Scientist Intern

Electronic Arts

Researching AI techniques to improve game performance and user engagement, with a focus on NLP and speech-to-text models, and deploying them through on-premise/cloud APIs.

[Skills]

- Speech-to-Text: Fine-tuned STT Whisper models to verify game commentators' recordings in multiple languages; deployed models on AWS with CDK.
- NLP: Developed an inclusive Slack Bot to detect language issues.
- Computer Vision: Image classification and button detection for in-game elements based in Resnet architectures.

Research and Development Technologist

Hospital Universitario Getafe

Conversational Assistant for Elderly Patient Care: Developed a custom-built conversational assistant, based on AWS LEX, on Raspberry Pi to prevent delirium in elderly patients, integrating hardware and intent-based software commands for engaging interactions; deployed on AWS for clinical research, with findings published in a research paper.

Researcher

University Carlos III of Madrid

Conducted research in neural networks and related fields; also served as a teaching assistant in lab sessions, providing support to students. Fine-tuning and evaluating SOTA transformers models as BERT for competitions.

EDUCATION

Leganés, Spain

2021-2022

Master's Degree in Computer Science and Technology

University Carlos III de Madrid

Gathering and applying knowledge in Big Data, NLP & Cloud

Bachelor in Computer Science in English

University Carlos III de Madrid

Artificial Intelligence Specialization



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Madrid, Spain

TECH STACK

PROGRAMMING LANGUAGES & LIBRARIES

- Python, PyTorch, Tensorflow, Keras, Transformers, Pandas, SQL, NoSQL, Scikit-learn, FastAPI, BentoML.

CLOUD TECHNOLOGIES

- Google Cloud Platform (GCP): Vertex, Bucket, Instances.
- Amazon Web Services (AWS): CDK, S3, IAM, Lambda, CloudWatch, API Gateway, DynamoDB, SageMaker, ECS, EC2,

OTHERS

- ETL, CI/CD, Git, Docker, JupyterLab, MLFlow, HuggingFace, LabelStudio, Argilla, ComfyUI.

PUBLICATIONS

- "ADELA: a conversational virtual assistant to prevent delirium in hospitalized older persons"
- "Seeking Clustering Excellence: Unleashing the Power of Sentence Transformers and Preprocessing Techniques"
- "Unlocking Sentiments: Exploring the Power of NLP Transformers in Review Analysis"

AWARDS

- Madrid Excellent Academic Record 2020
- Madrid Excellent Academic Record 2019
- Summer Scholarship at UIMP 2018

LANGUAGES

- Spanish (native)
- English (advanced)
- French (basic)
- Chinese (basic)

MENTORING

- Participating as a speaker in initiatives to promote Idealista's work and attract new talent.
- Mentored several interns during 2023-2024 at Idealista.
- Teamwork, versatile, proactive & open-minded.

LEARNING

- Reading papers on AI and ML.
- Exploring new models and tools.
- Staying updated on tech trends.