

# JAVIER ALONSO MENCIA

DATA SCIENTIST & MACHINE LEARNING ENGINEER

## EXPERIENCE

Madrid, Spain  
June 2023 - Now

### Data Scientist & ML Engineer

#### Idealista

Creating and Deploying Text & Vision models to improve user experience at Idealista's Real State platform.

#### [Projects]

- Trained vision models for room classification, OCR, and object detection; optimized model performance on GPUs vs CPUs.
- Automated image ranking based on visual appeal; dataset generation, model training, and deployment in Docker.
- Text classification project to categorize messages (e.g., spam, offensive) using synthetic data generation and transformer-based text models with monthly automated training.
- Ad tagging system with text-based models.
- Free search transformation to convert user search queries into structured JSONs for ad listings; synthetic data generation, fine-tuning and validation of commercial models, and open-source model deployment research for GPU optimization.
- Generate image captions by adapting models to make the platform more inclusive and enable new types of intelligent search.

Madrid, Spain  
Sept. 2022- June 2023

### Data Scientist Intern

#### Electronic Arts

Processing Data, Creating NLP Models and Deploying Applications for FIFA videogame.

#### [Projects]

- Audio Transcription Model for Game Commentary: Fine-tuned transcription models to verify game commentators' recordings in multiple languages; deployed models on AWS with CDK.
- Developed and deployed an inclusive Slack Bot a Slack bot to detect language issues.
- Image classification and button detection for in-game elements.

Getafe, Spain  
Feb. 2022 - March 2023

### Research and Development Technologist

#### Hospital Universitario Getafe

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

Leganés, Spain  
Sept. 2021 - Sept. 2022

### Researcher

#### University Carlos III of Madrid

Conducted research in neural networks and related fields; also served as a teaching assistant in lab sessions, providing hands-on support to students.

Shenzhen, China  
July 2019 - August 2019  
July 2018 - August 2018

### Technical Support Intern

#### Anycubic 3D Technology

Participated in an immersive international internship in Shenzhen, gaining exposure to 3D printing technology and benefiting from a multicultural environment that enriched personal and professional growth.

## EDUCATION

Leganés, Spain  
2021-2022

### Master's Degree in Computer Science and Technology

#### University Carlos III de Madrid

Gathering knowledge in Big Data, NLP & Cloud

Leganés, Spain  
2017-2021

### 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, PySpark, 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)
- French (basic)
- English (advanced)
- 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.