

JAVIER FERNANDEZ

Data scientist | ML Engineer | AI researcher

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Data scientist at Intelygenz (Madrid) and AI research assistant at Cross Labs (Tokyo)

SKILLS

Programming languages	Python, C/C++, C#, SQL
Libraries and Frameworks	PyTorch, Keras, Scikit-learn, Pandas, Spark, Hugging Face, Flask, MLServer
Databases	Snowflake, MongoDB
Environments	Conda, Pipenv, Poetry, Visual Studio Code, Git
Operating systems	Mac OS X, Windows, Ubuntu
Other	Docker, PowerBI, Unity, LaTeX, Pack Office(Word, Excel, PowerPoint)

EXPERIENCE

Currently April 2022	Data Scientist ML Engineer, INTELYGENZ, Madrid (Spain) > E-commerce smart warehouse assistant for monitoring > Integration of AI-based recommendations > ML Server API architecture and development > CI/CD pipeline with GitHub actions Python PyTorch ML Server Databricks Docker Azure DevOps GitHub CI/CD
April 2022 April 2021	Data Scientist, INTELYGENZ, Madrid (Spain) > E-commerce smart warehouse assistant for monitoring > Development of ETLs and integration with relational databases > Define the metrics and recommendations along with the stakeholders for our product > Product Owner role when required > Personalized Academic Research Paper Recommendation System > Regression for number of pallets estimation > Unsupervised image anomaly detection Python SQL Snowflake Databricks Data Factory Azure DevOps PowerBI NLP Forecasting
April 2021 May 2019	Data scientist, CROSS COMPASS, Tokyo (Japan) > Supervised ECG-based arrhythmia detection > Unsupervised anomaly detection for a turbine and a paper machine > SOTA models for EEG-based emotion classification systems > Combining EEG signals and Deep Learning for Expert Classification Python PyTorch 1D CNN 2D CNN LSTM XGBoost
Currently April 2020	AI research assistant, CROSS LABS, Kyoto (Japan) > Cross-subject EEG-based emotion recognition > Emotion-driven interactive storytelling > Optimizing lockdown policies for COVID-19 > Studying human perception-based color Neuroscience Affective computing ALife Interactive storytelling
July 2017 September 2015	Robotics research assistant, CENTRE FOR AUTOMATION AND ROBOTICS CSIC, Madrid (Spain) > Integrating 3D reconstruction in virtual reality > Development of walking gaits for an hexapod robot Python C++ ROS Gazebo Unity 3D Reconstruction

EDUCATION

- 2019 - 2020 Postgraduate Brain-Science Training Program at RIKEN Research Institute (**Japan**)
- 2017 - 2019 Master of Science in Engineering
- Keio University (**Japan**)
 - Specialization : Robotics
- 2016 - 2019 Master en Industrial Engineering)
- Universidad Politécnica de Madrid (**Spain**)
 - Specialization : Automation and Electronics
- 2012 - 2016 Bachelor of Industrial Engineering at Universidad Politécnica de Madrid (**Spain**)

LANGUAGES

Spanish ● ● ● ● ●
English ● ● ● ● ●
Japanese ● ● ● ○ ○

STRENGTHS

- Leadership experience
- Collaboration talent
- Communication skills
- Self-motivation
- Multitasking

MAIN PUBLICATIONS

- 2022 - Emotion-Driven Interactive Storytelling : Let Me Tell You How to Feel
- 2021 - Cross-subject EEG-based emotion recognition through neural networks with stratified normalization
- 2017 - Integrating 3D reconstruction and virtual reality : A new approach for immersive teleoperation

MAIN BLOGS

- 2022 - Introduction to Ensemble Methods in Machine Learning
- 2021 - Attention in computer vision
- 2020 - The statistical analysis t-test explained for beginners and experts

PROJECTS

THROUGH THE LOOKING-GLASS : BUILDING AN INTERACTIVE AI EXPERIENCE

2019

 <https://collab.t-kougei.ac.jp/5th-exhibition/>  [Blog Post](#)

Through The Looking-Glass lets viewers immerse themselves in the inner mechanics in a dynamic and interactive way. We built our AI to apply a Multi-Style Transfer to a live video feed to show bursts of activity, color, and movement when visual input is received. The viewer can see the image deconstructed and passed through the neural network, through style filters, and finally, reconstructed in a completely new style, all in real-time.

PERSONAL INTERESTS

HOBBIES : clarinet, writing, movies, traveling
SPORTS : cross fit, football, running, ski
INTERESTS : volunteering, international programs, multicultural organization