JOAQUÍN ARIÑO GRAJERA

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WORK EXPERIENCE

Machine Learning Intern - Stellantis (Opel) | Zaragoza, Spain   Oct 2022 - Jul 2023
- Developed an OCR with over 98% accuracy, overseeing artificial vision systems
- Monitoring and testing AI-based systems in the production plant and evaluated new commercial solutions

PROJECTS

Master's Thesis - CNH | Bruges, Belgium   Jan 2024 - Sept 2024
Performance Metrics Using Computer Vision in the Threshing System of a Combine Harvester
- Developed computer vision models to optimize crop harvesting efficiency, including data preprocessing, labelling, training, and fine-tuning models using PyTorch and Python
- Models deployed using docker and evaluated during real harvesting. Achieved over 95% accuracy

Bachelor's Thesis - Stellantis (Opel) | Zaragoza, Spain   Jan 2023 - Jul 2023
Low-Cost Embedded Vision System for Industrial Conformity Control

- Implemented a low-cost embedded system for quality control. Developed both software and hardware
- Installed and operational on the production line, checking over 700 cars/day, achieving more than 97% accuracy. Implemented using TensorFlow and Python

EDUCATION

Master of Artificial Intelligence in Business and Industry - KU Leuven | Bruges, Belgium   Sept 2023 - Sept 2024
Cum Laude
- Implemented an online store with computer vision, enabling product searches by characteristics with 91% accuracy
  - Developed the frontend and backend communication, deployed on AWS using Docker, Terraform and GitHub CI/CD automations
- Developed a computer vision system capable of identifying watch features with over 90% accuracy and predicting their price using a regression model
  - Extracted, pre-processed, labelled, and analysed 78,000 watches to train computer vision models
- Key courses: Machine Learning, Computer Vision, Deep Learning, Business Analytics, Natural Language Processing, Generative AI

Erasmus Exchange (3rd Year of Degree) - Technological University Dublin | Dublin, Ireland   Sept 2021 - Jun 2022

Computer Engineering - University of Zaragoza | Zaragoza, Spain   Jun 2023

LANGUAGES

English: C1 Advanced - Cambridge English Advanced Certificate
French: B2 Delf - French Language Studies Certificate
Spanish: Native

SKILLS & INTEREST

Skills: Python, C++, TensorFlow, PyTorch, Cuda, Git, Conda, Bash, Numpy, OpenCV, Docker, Linux, Terraform, AWS
Soft Skills: Team player, Proactivity, Curious, Analytical Thinking, Good Communication Skills, Adaptability
Interests: Artificial Intelligence, App Development, Formula 1, Space Exploration, Geopolitics, Sports, Reading
Other: Driving License B