MARIO
PARREÑO
MACHINE LEARNING ENGINEER

EXPERIENCE

September 2022 Present

SENIOR DATA SCIENTIST
Cognizant - Spain

Led a team for a document manager for La Caixa Banking Foundation. Use of state-of-the-art visual document understanding Transformer Donut. MLOPs batch and inference multi-stage pipelines on Azure ML.

Led a project for Keysight for the detection and OCR of components in mobile applications. Constrained solution, as it had to run on consumer hardware and prevent data leakage.

Generative AI PoCs based on LLMs: Reasons-to-buy analytics, conversational and tool-based agents.

Leading a project for Santander Bank in a Generative AI project. Extraction of fields of interest from scanned documents with different qualities. Hybrid solution based on computer vision and natural language processing applying detection models, OCR, and LLMs.

April 2022 September 2023

MACHINE LEARNING & COMPUTER VISION ENGINEER
Solver Intelligent Analytics - Spain

Solo Computer Vision engineer for Neurovias, a project for monitoring and management of predictive maintenance of interurban roads. Labeling, training, testing, and production phases to identify different interurban road defects. Multi-Label classification and damage segmentation. Stereoscopy depth maps with neural networks.

April 2018 January 2022

MACHINE LEARNING ENGINEER
Polythechnic University of Valencia - Spain

Computer Vision project for PAVASAL S.A. in automatic identification and cuantization, through images, of the different damages of asphalt.

Research on domain adaptation and domain generalization techniques based on CycleGAN models for medical imaging problems.

EDUCATION

2017 - 2018

MSc IN ARTIFICIAL INTELLIGENCE
Polythechnic University of Valencia - Spain

2013 - 2017

BACHELOR'S DEGREE IN INFORMATICS ENGINEERING
Polythechnic University of Valencia - Spain

CONTACT

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LANGUAGES

Spanish ● ● ● ● ●
Catalan ● ● ● ● ●
English ● ● ● ● ○

AWARDS AND RESEARCH

2021

DATATHON CAJAMAR UNIVERSITYHACK
3 of 32 - Cajamar

Developed AI-powered dashboard analyzing Spanish produce market during pandemic.

2020

JAFC INTERNATIONAL AWARD FOR INNOVATION IN ROADS - VIII EDITION
1 of 62 - Spanish Road Association

Asphalt distresses detection and segmentation through Convolutional Neural Networks.

2020

MULTI-CENTRE, MULTI-VENDOR & MULTI-DISEASE CARDIAC IMAGE SEGMENTATION
4 of 14 - MICCAI

Contribute to the effort of building generalisable models that can be applied consistently across clinical centres.

2019

SKIN LESION ANALYSIS TOWARDS MELANOMA DETECTION
2 of 64 - MICCAI

Classify dermoscopic images among nine different diagnostic categories.

2019

LEFT VENTRICLE SEGMENTATION

State-of-the-art results

Transfer Learning and Model Combination Analysis for Medical Image Segmentation.

2019

BENGALI.AI HANDWRITTEN GRAPHEME CLASSIFICATION
33 of 2059 - Kaggle

Bengali handwritten optical character recognition through state-of-the-art neural network architectures.