

Nuria Heredia Heredia

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Personal Summary

Data scientist with experience in the development and deployment of artificial intelligence models. Experienced in working with multidisciplinary teams to build industrial computer vision solutions. As part of my work at the Institute of Information Technology, I contributed to projects focused on ML-based visual inspection systems aimed at improving industrial processes. I am currently pursuing a Master's degree in Data Science to continue developing my analytical and technical skills in the field, while independently working on projects covering different stages of the data lifecycle.

Experience

R+D Engineer, Technological Institute of Informatics – Valencia, Spain Oct 2023 – Oct 2025

- Collaborated with cross-functional teams to integrate visual inspection systems into industrial processes.
- Performed data cleaning, analysis, and preprocessing duties.
- Developed and optimized specialized image-based AI models for automation systems such as stock maintaining, product quality estimation and defect detection.
- Prepared technical reports to present results, analyze performance, and communicate insights.

Computer Vision Internship, Technological Institute of Informatics – Valencia, Spain Oct 2022 – July 2023

- Developed ad-hoc algorithms for industrial AI solutions.
- Performed data cleaning and labeling duties.
- Trained and optimized AI models for computer vision solutions.

Education

Master's Degree in Data Science, Open University of Catalonia Sept 2024 – Present

- AI oriented
- Exploratory Data Analysis, Machine Learning, Statistical Analysis, Data Visualization

Bachelor's degree in Computer Science, Polytechnic University of Valencia Sept 2019 – Sept 2023

- Computation specialization
- Problem-Solving, Communication skills, Software engineering

Projects

Model development for automatic detection of contaminants in plastic parts (Bachelor's Thesis)

(ML, TensorFlow) Development and optimization of an image-based segmentation model.

Visualization of housing data obtained through web scraping (link)

(Selenium, PowerBI) Development of a tool for automatic data collection and processing.

Analysis and prediction of client churn in telecom companies (link)

(ML, EDA) Development and optimization of prediction models for client churn prevention.

Skills

Programming Languages: Python, C++, C, R, SQL, JavaScript

Technologies: Microsoft SQL Server, Power BI, EDA and ML oriented python libraries

Languages: Spanish (Native), English (Cambridge C2), Catalanian (Native)