

Maria Jose Salas Miranda

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Professional Summary

AI Master's graduate (110/110 cum laude) and Jr. Data Scientist Trainee specializing in the end-to-end ML lifecycle. Experienced in deploying scalable GenAI solutions using **Databricks** and **MLflow** on Azure. Proven track record in translating complex manufacturing data into cost-saving insights at ASML. Aspiring AI/ML Engineer focused on bridging technical architecture and business value.

Work Experience

Jr Data Scientist Trainee

Sep 2024 – Ongoing

Heroes B.V., Utrecht, NL

- Engineering end-to-end data solutions and scalable ML pipelines within the **Azure ecosystem**.
- Architecting **Generative AI pipelines** and deploying models using Databricks and MLflow.
- Developing Python-based solutions for real-world business cases targeting enterprise-level efficiency.

Data Science Graduation Intern

Sep 2024 – Mar 2025

ASML, Eindhoven, NL

- Built a predictive model using **SAP data and Python** to identify correlations between NPI parameters and quality metrics, driving operational cost reduction.
- Conducted deep-dive data analysis on quality issues using advanced statistical methods.
- Translated technical findings into actionable business insights for senior stakeholders.

Research Intern

Feb 2024 – Mar 2024

IULM AI Lab, Milan, IT

- Investigated SOTA text-to-image methods (Stable Diffusion, DALL-E) and their underlying architectures.
- Synthesized research from 10+ scientific papers on generative model optimization.

Academic Projects

Emotion Vision (Computer Vision)

Dec 2024 - Jan 2025

- Engineered a real-time emotion recognition system using a **CNN (TensorFlow/Keras)** on the FER-2013 dataset, achieving 65% accuracy with OpenCV-integrated webcam overlays.

Azure Language Assistant

Dec 2024 - Jan 2025

- Leveraged **Azure AI Foundry** to implement speech recognition and translation features for a multi-language learning application.

Education

Master's in AI for Business and Society

Oct 2022 – Mar 2025

IULM University, Milan, IT

- **Grade: 110/110 cum laude.** Thesis on Predictive Analytics in High-Tech Manufacturing.
- **Erasmus+:** Romanian-American University (Computer Science for Business), Grade: 10/10.

Bachelor's Degree in Law

Oct 2018 – Dec 2022

University of Milan-Bicocca, IT

- **Erasmus+:** University of Ljubljana, Slovenia (School of Law).

Technical Skills

AI/ML/CV: TensorFlow, Keras, OpenCV, GenAI, Scikit-Learn, Foundational NLP.

Data & Cloud: Azure, Databricks, MLflow, Power BI, SQL, Pandas, NumPy, Matplotlib.

Engineering: Python, C#, Docker, Git/GitHub, APIs, Monitoring & Logging Frameworks.

Languages: Spanish (Native), Italian (Native), English (Fluent).

Achievements & Certifications

Winner - IULM Talent Challenge (2024): Developed AI applications for inclusion.

Participant - GDSC AI Hackathon (2024): Prototyped AI solutions for the education sector.

Certifications: IBM AI Engineering, Google Cybersecurity, Azure Fundamentals.