RUI PINTO

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ABOUT ME

I am a Machine Learning Research Fellow and recent MSc graduate in Engineering and Management of Information Systems, combining rigorous academic research (MSc thesis and publication-ready work) with hands-on industrial projects focused on Anomaly Detection and Predictive Maintenance.

EXPERIENCE

Machine Learning Researcher - CCG/UMinho.

sep 2024 – at the moment

- Currently contributing to the Produtech R3 consortium by developing production-ready training and inference APIs with the goal of detecting anomalies in real-world industrial machines.
- I collaborate closely with industry partners to translate domain requirements into robust ML solutions. **Teck Stack:** H2OAutoML, XGBoost, Tensorflow, Docker, MLflow, FastAPI, Redis Queue, Keycloak, Git.

Summer Internship - Codepoint.

jul 2023 – aug 2023

I worked with a team of interns to create a landing page for Codepoint's new product, Klatch. **Teck Stack:** React, GitLab, Next.js, Mantine, TypeScript, Figma, ClickUp, and Slack.

RELEVANT ACADEMIC ML PROJECTS

- <u>Sonae MC Idea Contest:</u> Presented a robust forecasting model using a cloud-based AI solution (Vertex AI) to improve Sonae's current sales prediction model performance. (1st place in the idea contest)
- <u>Water Quality Prediction System:</u> Developed and Deployed a Machine Learning model that predicts the water potability based on a dataset. (Grade 19 out of 20)

EDUCATION

Master's in Engineering and Management of Information Systems

2023 – 2025, University of Minho – Final Grade: 19

Bachelor's in Engineering and Management of Information Systems

2020 – 2023, University of Minho – Final Grade: 16

SKILLS

- Programming Languages: Python, Javascript, SQL
- Frameworks/others: H2OAutoML, Scikit-learn, MLflow, Docker, FastAPI, Redis, Git.
- Soft Skills: Communication, Dedication and Persistency
- Languages: Portuguese - native | English - advanced

RESEARCH PUBLICATION

R. Pinto, A. Pilastri, L. Ferreira, P. Cortez and R. Freitas. "Validating Anomaly Detection One-Class Classifiers Using Statistical Generators". In *Proceedings of the International Joint Conference SOCO 2025, Advances in Intelligent and Soft Computing (AISC)*, Springer, Salamanca, Spain, October, 2025.