NUNO PEDROSA

Monte Redondo, Leiria, Portugal | +351 934 605 808 | nunopedrosa18@gmail.com | linkedin.com/in/NunoPedrosa18/

PERSONAL PROFILE

As an **AI expert**, I am always seeking for new ways to apply my skills in real-world challenges.

I am deeply fascinated by AI and data, and I aim to evolve in this field, creating impact and business value.

GitHub
github.com/Nazpe

EDUCATION

UNIVERSITY OF AVEIRO

Master's Degree in Data Science
2021-2023
FINAL GRADE: 16.2/20
THESIS: 18/20

Bachelor's Degree in Biotechnology
2018-2021
FINAL GRADE: 17.5/20

CERTIFICATES

- Trainer's Pedagogical Skills Certificate (CCP)
- English DET C1 CEFR
- McKinsey Forward Program

LANGUAGES

- **Portuguese**
  (Mother Language)
- **English**
  (Advanced Level)
- **Spanish**
  (Intermediate Level)
- **French**
  (Basic Level)

EXPERIENCE

Data Scientist, Galp Energia
REFINERY DATA SCIENCE & DIGITAL TECHNOLOGY (INTERNSHIP)
11/2023 - 11/2024

- Applied Data Science and AI methodologies to optimize industrial processes and design smarter processes, as part of the Refinery Digital & Operational Excellence team, to conduct the digital transformation of the refinery in a digital-first mindset.
- Management and participation in strategic projects with cross-functionally stakeholders, ensuring coordination among all involved parties.
- Detailed assessment of the refinery's IT/OT systems and infrastructure.

REFINERY ADVANCED SCHEDULING

- A refinery's digital twin that schedules all key activities, simulating multiple scenarios to optimize outcomes. Enhancing responsiveness, efficiency and decision-making.
- The app was developed using object-oriented Python and React in cooperation with Boston Consulting Group (BCG). I implemented a big variety of major new features in an Agile and Scrum environment.

Researcher, IEETA   in partnership with Ritain.io
THESIS AT INSTITUTE OF ELECTRONICS AND INFORMATICS ENGINEERING OF AVEIRO
09/2022 - 07/2023

- Prediction of mortality in intensive care unit patients with pneumonia via logistic regression, to obtain interpretable models that allow to obtain clinical insights.
- I wrote and presented an article based on this work to the CIARP 2023 conference (26th Iberoamerican Congress on Pattern Recognition), The paper can be found in the proceedings of the conference, here.

SKILLS

Programming Languages: Python, SQL, R, JavaScript.

Libraries: Pandas, Numpy, Scikit-Learn, PyTorch, Pyspark (Apache Spark), Matplotlib, Seaborn, FastAPI, Transformers.

Data Techniques: Data Exploration and Visualization, Statistics, Time Series, Big Data, Data Mining, Machine Learning, Artificial Intelligence, Deep Learning, Generative AI, Computer Vision, Natural Language Processing (NLP), Large Language Model (LLM), Analytics,

Tools: HTML, CSS, Git, Docker, LaTex, Overleaf, Jira, Office, Jupyter, Hugging Face, Power BI.

Soft Skills: Interpersonal and communication skills, Problem solving, Critical thinking, Time management, Creative and Curious mindset, Adaptability to change, Proactive attitude, Communication of Complex Concepts with Clarity.

LEADERSHIP & ACTIVITIES

- Winner of the Aveiro Tech City Hackathon 2022 Challenge #3, IoT (Internet of Things) platform for data sovereignty in crisis environments, proposed by Ubiwhere.
- BEST Aveiro (Board of European Students of Technology). I was the IT team coordinator and part of the fiscal commission. I also did public relations work.
- Volunteered as an English teacher at the Pagna Cambodian Education Fund.

OTHER PROJECTS

- Crowd counting (up to 10,000) in images via Deep Convolutional Neural Networks.
- Prompt Engineering for semantic classification of newspaper publications.
- A movie recommender system based on ratings using Collaborative Filtering.
- Non-Negative Matrix Factorization for exploring the political agenda of the EU.
- Prediction of protein localization in *Saccharomyces cerevisiae* with classic ML algorithms.