Francisco Mesquita *ML Engineer and Researcher*

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Google Scholar | Portfolio

Profile

I am a results-driven professional with a passion for artificial intelligence. Recognized for my dedication and optimistic mindset, I thrive on turning challenges into opportunities for personal and professional growth. My expertise lies in data analysis, scientific research and application of Machine Learning and Deep Learning algorithms. I bring a strong commitment to continuous learning and I am eager to contribute my skills and knowledge to cutting-edge projects in AI.

Education

2021 – 2023 **Computer Engineering, Intelligent Data Analysis Master's Degree - 17 Values**
ISEC - Polytechnic of Coimbra

2018 – 2021 **Computer Engineering Degree - 16 Values**
ESTGOH - Polytechnic of Coimbra

Professional Experience

04/2022 – present, Porto **Machine Learning Engineer and Researcher**
Universidade da Maia - ISMAI
Involved in the European project OMEGA-X for a common Energy Data Space. Also conducting research with Maia City Hall in the energy sector and exploring machine learning, particularly in image processing and Explainable Artificial Intelligence (XAI).

03/2023 – 08/2023, Oliveira do Hospital **Invited Assistant Professor**
Polytechnic of Coimbra
Instructed practical sessions within the field of Electrical Circuits, covering various topics such as Ohm's law, electrical power, Kirchhoff's laws, Thévenin's and Norton's theorems, and other concepts.

09/2021 – 04/2022, Coimbra **Full Stack Web Developer**
Instituto Pedro Nunes
Development in a full-stack web application with Angular and .NET framework. Used Technologies: C#, Entity framework, Javascript, KendoUI, Microsoft SQL Server, Azure functions.

Main Scientific Publications (as first author)

05/12/2023 **Machine learning techniques to predict the risk of developing diabetic nephropathy: a literature review**
Springer, Journal of Diabetes & Metabolic Disorders

29/11/2023 **Depression detection using Deep Learning and Natural Language Processing techniques: A comparative study**
Springer, CIARP 2023: *Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications*

31/12/2021 **Oversampling techniques for diabetes classification: A comparative study**
IEEE, EHB 2021: *e-health and bioengineering conference.*

Technical Skills

- Machine Learning
- Deep Learning
- Data Analysis
- Data Pipelines
- Scientific Research
- Software Development
- Database Management
- Version Control

Soft Skills

- Desire to learn
- Motivation
- Comunication
- Autonomy
- Team Work
- Organization
- Adaptability
- Optimistic Mindset

Certifications

- CCNA: Switching, Routing, and Wireless Essentials
- CCNA: Networking, Security, and Automation
- PCAP: Programming Essentials in Python
- NDG Linux Essentials

Languages

- Portuguese
- English