□ +351 927182257 | **Setting** edfame@gmail.com | **Getting** Edfame | **Getting** Edfame

Summary

I started learning how to program by myself in 2013/2014 because I have always wanted to discover how things are made, and what needs to be done for a computer to perform certain tasks.

In 2020 I've finished a **Bachelor's degree in Computer Science Engineering** at Universidade de Évora with a final classification of **16/20**. In 2023 I finished a **Master's degree in Computer Science Engineering** at Universidade de Évora with a final classification of **18/20**.

Interests: Algorithm optimisation, **machine learning** applied to daily basis problems, which involves data science and engineering, and **IoT** with multi-modal interaction. Natural Language Processing (**NLP**) and Automatic Speech Recognition (**ASR**) in their way combine all of the above, making it a huge topic of interest.

Hobbies: Exercise (gym, ex water polo player), play the guitar, and some video games with friends.

Experience

Universidade de Évora Évora, Portugal

 RESEARCHER
 Oct 2021 - May 2022

• Part of a project in partnership with Altice Labs

- Goal: develop an Automatic Speech Recognition/Speech To Text system using deep learning for European Portuguese.
- Toolkit used:
 - Python
 - NVIDIA NeMo, framework for developing GPU accelerated deep neural models based on PyTorch and Lightning
 - **Docker**, environment containerisation and replication
 - Slurm, job scheduling
- The work was developed in a team of 2 people mentored weekly by 2 professors.

Universidade de Évora Évora, Portugal

RESEARCHER Mar 2021 - Set 2021

- Researcher at project NIIAA Núcleo de Investigação Inteligência Artificial em Agricultura.
- · Goal: development of a customised machine learning crop monitoring system applied to precision and intelligent agriculture.
- Developed work: created a regression model using the KNN algorithm to predict the soil's electric conductivity value from satellite radar images.
- Toolkit used:
 - Python
 - pandas and numpy libraries for data pre-processing
 - scikit learn for the model creation

Universidade de Évora Évora, Portugal

Attendee/Participant Nov 2018 - Nov 2018

- Participated in "EIT Health Innovation Day" held at Universidade de Évora.
- Placed 3rd on a group contest where each group presented its business idea.

Universidade de Évora

Monitor

Évora, Portugal

Jul 2018 - Jul 2018

• Worked as a monitor in the course "Introdução à Internet of Things" integrating a project named "Ciência Viva no Laboratório – Ocupação Científica de Jovens nas Férias" hosted by the Department of Computer Science of Universidade de Évora.

• Goal: help the participants complete the course tasks.

Skills

Programming Languages Python, Java, C, SQL

Tools and frameworks Spring Boot, Scikit-Learn, Pandas, NumPy, Matplotlib, NVIDIA NeMo

Document Writing LaTeX, Markdown

Version Control Git

Languages Portuguese (native), English (advanced), Spanish (intermediate)

Eduardo Medeiros

Education

Universidade de Évora Évora, Portugal

MASTER'S DEGREE, COMPUTER SCIENCE ENGINEERING

Sep 2020 - Feb 2023

• Final grade: 18/20

• Relevant subjects: Machine Learning, Data Mining, Computer-Based Decision Support Systems and Multimodal Systems.

Universidade de Évora Évora, Portugal

BACHELOR'S DEGREE, COMPUTER SCIENCE ENGINEERING

Sep 2017 - Jun 2020

• Final grade: 16/20

Scientific Activities

Predicting soil electro-conductivity using Sentinel-1 images

Évora

RESEARCHER Mar 2021 – Sep 2021

- Objective: develop a customised crop monitoring system with advanced technologies applied to precision and intelligent agriculture
- Goal: create a regression model by using machine learning algorithms, such as k-nearest neighbours (KNN), Ridge, Lasso, and LinearSVM, to predict the soil's electric conductivity value from satellite Sentinel-1 radar images. Page 51-52.

Optimized European Portuguese Speech-To-Text using Deep Learning

Évora

RESEARCHER

Oct 2021 – May 2022

- Objective: develop an Automatic Speech Recognition System for the European Portuguese language.
- Goal: create a model using deep learning algorithms to transcribe audio recordings in the European Portuguese language. Page 125-126.
- **WER** = 0.0503

2021

Program Committees

2020 **Organising Committee**, RECPAD 2020

Organising Committee, RECPAD 2021

Évora/Online

Évora

EDUARDO MEDEIROS 2