António Morais
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OBJECTIVE
Graduate student looking for work opportunities in the field of Computer Vision.

CORE SKILLS
Python (5 years), C (4 years), C++ (1 year), PyTorch (1 year), OpenCV (1 year)

EDUCATION
University of Coimbra   Coimbra, Portugal
Master's in Computer Science, Intelligent Systems   September, 2019 − September, 2021

University of Coimbra   Coimbra, Portugal
Bachelor's in Computer Science   September, 2016 − July, 2019

WORK EXPERIENCE

University of Coimbra   Coimbra, Portugal
Student Researcher   February, 2021 − September, 2021
Researching ways to improve the fault-tolerance of CNNs in safety-critical systems
- Implementing and modifying CNN models for Image Classification in **C++** using **PyTorch** and **CUDA** in **Linux**
- Image preprocessing with **OpenCV** in C++ and Python
- Part of the AI4EU project (https://www.ai4eu.eu/)

CISUC - Centre for Informatics and Systems of the University of Coimbra   Coimbra, Portugal
Student Researcher   October, 2020 − December, 2020
Improved explainability of an Object Detection model used to detect and prevent the spread of forest fires
- Modified the source code (**C**) of the **Darknet** framework in order to use it with an Explainable AI library in **Python** (LIME)
- Used **Jupyter Notebook** in Linux to preprocess images (OpenCV), to train and test the models using CUDA, and to create functions that integrate Darknet with LIME
- Source code and examples available at https://github.com/AntMorais/yolime

University of Coimbra   Coimbra, Portugal
Student Researcher   April, 2020 − September, 2020
Worked as a Full Stack developer for a web app that evaluates student's understanding of the lecture material during class
- Data visualization in Python using Dash, Matplotlib, Numpy and Pandas
- Back end programming using Python, Requests and Docker

Bosch Portugal   Ovar, Portugal
Summer intern   August, 2019
Full Stack development of a web app that allows users of Azure DevOps to manage templates and apply them to existing work items
- Front end using Bootstrap, HTML+CSS, JavaScript and JQuery
- Back end with Flask, Python and Azure DevOps API

OTHER SKILLS
Data Science: Geopandas, Keras, MATLAB, PySpark, R, Scikit-learn, Scipy, TensorFlow
Databases: ArangoDB, MySQL, Neo4j, PostgreSQL
Languages: Portuguese (Native), English (C2 Proficiency), French (A1)