

DIOGO BASTOS

Master's in Biomedical Engineering

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PROJECTS

Gait-Based Identification from Images by Computational Techniques (📅 Sep 2023 - Oct 2024)

- A systematic review of gait recognition DL models and development of an innovative gait acquisition and recognition system.

Dental Clinic Management Website (📅 Mar 2023 - Jun 2023)

- Utilizing UML, relational modeling, and SQL, the system efficiently manages appointments, staff, patients, and procedures.

Machine Learning in the Detection of Pancreatic Cancer through Urinary Biomarkers (📅 Oct 2022 - Jan 2023)

- I utilized various machine learning techniques, including Naive Bayes, Logistic Regression, KNN, SVM, and Neural Networks.

EEG-Based Neurofeedback Android App for Stress Management and Relaxation (📅 Sep 2022 - Jan 2023)

- Interactive exercises and games, with troubleshooting for connectivity, signal processing, along with SQLite database for personalized insights and session tracking.

EDUCATION

M.Sc. in Biomedical Engineering

Faculty of Engineering of the University of Porto (FEUP)

📅 Sep 2022 - Oct 2024

- Final Grade: 17.13

English course abroad

EF Education First

📅 Oct 2021 - Mar 2022

- Final Level: B2.2

B.Sc. in Biomedical Engineering

Porto Higher Institute of Engineering (ISEP)

📅 Sep 2018 - Sep 2021

- Final Grade: 14.24

PUBLICATIONS

📄 Journal Articles

- D. R. Bastos and J. M. R. Tavares, "A scalable gait acquisition and recognition system with angle-enhanced models," *Expert Systems with Applications*, vol. 269, p. 126 499, 2025, ISSN: 0957-4174. DOI: <https://doi.org/10.1016/j.eswa.2025.126499>.

MY LIFE PHILOSOPHY

"I strive to always exceed expectations, confident I can excel and be the best in everything I pursue."

MOST PROUD OF



Maximum grade of 20/20 on final M.Sc. Dissertation

STRENGTHS

Critical Thinker

Goal-Driven

Technologically Proficient

Adaptable

Artificial Intelligence

Computer Vision

Deep Learning

Software Development

PROGRAMMING



Strong Experience with:

C & C++

HTML, CSS & PHP

Java

Python

SQL

MySQL/SQLite

Firebase



Sufficient Experience with:

Matlab R

LANGUAGES

Portuguese (native)



English



VOLUNTEER WORK

Firefighter

Lixa Volunteer Firefighters

📅 2015 - 2022

📍 Lixa

- Promotion to third-class firefighter in 2020.

Association Leader

Student Association of ISEP

📅 2019 - 2021

📍 Porto

- Member of the Career Opportunities Department, focused on enhancing student-job market relations.