# **DIOGO BASTOS**

### Master's in Biomedical Engineering

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# PROJECTS

Gait-Based Identification from Images by Computational Techniques ( **D** 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 ( Doct 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)

**D** 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. 126499, 2025, ISSN: 0957-4174. DOI: https://doi.org/10.1016/j.eswa.2025.126499.

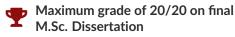
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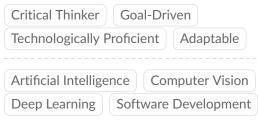
# **MY LIFE PHILOSOPHY**

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

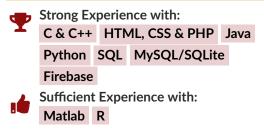
# MOST PROUD OF



# STRENGTHS



## PROGRAMMING



# LANGUAGES

Portuguese (native)

English

# **VOLUNTEER WORK**

### Firefighter

### **Lixa Volunteer Firefighters**

**1** 2015 - 2022 Lixa

• Promotion to third-class firefighter in 2020.

### Association Leader

**Student Association of ISEP 1** 2019 - 2021

Porto

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