

Tiago Barbosa

Porto, Portugal

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Personal Profile

I'm Tiago Filipe Magalhães Barbosa, currently pursuing my Master's degree in Informatics and Computing Engineering at FEUP in Porto, specializing in Artificial Intelligence and Deep Learning. I stand out for my ability to efficiently solve problems, manage projects and collaborate effectively in diverse teams which I consistently applied throughout my academic journey and international experiences.

Education

Faculty of Engineering of University of Porto

Porto, Portugal

Master's Degree in Informatics and Computing Engineering

September 2023 - Present

- **Key Areas:** Machine Learning, Software Development (Large Scale), Distributed Systems (Large Scale), Requirements Engineering, Enterprise Management and Project Management

Vienna University of Technology (TU Wien)

Vienna, Austria

Erasmus+ Exchange Programme

September 2024 - February 2025

- **Key Areas:** Generative AI, Quantum Computing, Cryptocurrencies and Ubiquitous Computing (IoT)

Faculty of Engineering of University of Porto

Porto, Portugal

Bachelor's Degree in Informatics and Computing Engineering

September 2020 - July 2023

- Graduated with **18/20**
- **Key Areas:** Artificial Intelligence, Functional and Logic Programming, Parallel and Distributed Computing, Web Technologies, Computer Networks, Computer Security, Programming, Algorithms and Data Structures, Databases, Operating Systems, Algorithm Design and Compilers

Projects

Enhancing Security in Deep Neural Networks (Master's thesis)

@FEUP February 2025 - Present

- This research aims to improve the resilience of deep neural networks against adversarial attacks by developing real-time detection mechanisms and innovative defense strategies. The goal is to identify vulnerabilities in AI models and strengthen their robustness, ensuring safer and more reliable AI applications.
- **Skills:** Python, PyTorch, Deep Learning, Cybersecurity, Research, Autonomy, Critical Thinking

Notifications Micro Service

@Altice Labs and FEUP February 2023 - June 2023

- This project proposes a new micro-service for network alerts. It goes beyond traditional methods by sending real-time notifications directly to Altice and users' preferred platforms (WhatsApp, Teams, etc.). This ensures faster response times and a more informed user experience, ultimately improving telecommunication service reliability.
- **Skills:** Java, Quarkus, Kubernetes, Leadership, Teamwork, Logical Thinking

Skills

Programming: Python, Java, C, C++, JavaScript, SQL, NoSQL, HTML, CSS, PHP, PyTorch, Docker, CI/CD, Git

Areas of Interest: Artificial Intelligence, Machine Learning, Deep Learning, Cybersecurity, Cloud Computing, Software Development, Web Development

Soft-skills: Problem-Solving, Critical Thinking, Teamwork, Leadership, Communication, Adaptability, Time Management, Project Management, Creativity, Cross-Cultural Collaboration

Languages:

- Portuguese – Native
- English – Fluent (C1)

11th March 2025