Tiago Rodrigues

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Education

Faculty of Engineering of the University of Porto   **September 2022 - Present**
Masters in Informatics and Computer Engineering

University of Twente   **September 2023 - February 2024**
ERASMUS+ Programme

Faculty of Engineering of the University of Porto   **September 2019 - July 2022**
Bachelors in Informatics and Computer Engineering

Work Experience

INESCTEC   **February 2024 - Present**
Research Assistant   *Porto, Portugal*

- Investigated automatic discharge summary generation from notes written in the course of hospital admissions, using state-of-the-art LLMs
- Tech Stack Used: Python, Pytorch, Huggingface
- **Source Code**

Websystems   **November 2021 - January 2022**
Full-Stack Developer   *Barcelos, Portugal*

- Improved existing admin dashboard by adding new features and records, with full CRUD capabilities
- Built UI to easily retrieve information stored about several clients
- Tech Stack Used: C# with .NET Framework, Microsoft SQL Server, HTML, jQuery, Bootstrap

Projects

Massive Dataset Challenge

- Developed a Text Classification model for the MASSIVE multilingual dataset using Pytorch and HuggingFace.
- Achieved results comparable to the original publication, with far less computing power and fine-tuning
- Tech Stack Used: Pytorch, Huggingface, Scikit Learn
- **Source Code**

Ovarian Cancer Detection

- Devolped a Computer Vision model capable of classifying Ovarian Cancer Subtypes for the **UBC-OCEAN** competition
- Experimented with building custom architectures, including a Shallow-Deep CNN and Radiomics feature extraction, and dealing with custom data
- Tech Stack Used: Pytorch, Kaggle Notebooks
- **Source Code**

Bacefook: a Facebook Clone

- Created a social network clone of Facebook, with full CRUD functionality, in an agile methodology
- Interacted with the full development cycle, including user stories, mock-up design in Figma, database design with UML and both back-end and front-end code
- Tech Stack Used: Laravel, Bootstrap, PostgreSQL, Figma
- **Source Code**

Personal Website

- Designed a personal portfolio website to learn about web technologies and static site generation
- Improved online presence and created a place to aggregate all projects and updates
- Tech Stack Used: Figma, Astro, Tailwind
- **Source Code**

Technical Skills

Proficient In: Python, Javascript/Typescript, HTML, CSS, Java, C/C++
Explored: PHP, Rust, Lua, Go
AI Frameworks: Pytorch, Huggingface, Scikit Learn
Web Frameworks: Svelte, SvelteKit, Vue, Nest, Tailwind, Bootstrap
Developer Tools: Linux, Neovim, VS Code, Git, GitHub