

Telmo Baptista

SOFTWARE ENGINEER

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Education

Faculdade de Engenharia da Universidade do Porto

Porto, Portugal

MENG. IN INFORMATICS AND COMPUTER ENGINEERING

Sep. 2018 - Jul. 2023

- Thesis: "Collaborative Machine Learning Without Centralized Data for Computer-Aided Diagnosis of Glaucoma using Retinal Fundus Images"

Experience

Machine Learning Researcher

Porto, Portugal

FRAUNHOFER PORTUGAL AICOS

Feb. 2023 - Jul. 2023

- Developed federated learning approach with Flower for computer-aided diagnosis of glaucoma using retinal fundus images.
- Studied the performance impact of different data distributions and data quality on federated learning strategies.
- Studied various federated learning strategies and evaluated their performance in multiple scenarios.

Research Grants

Porto, Portugal

FRAUNHOFER PORTUGAL AICOS

Jul. 2022 - Oct. 2022

- Studied methods for glaucoma diagnosis and retinal layer segmentation in OCT-B images.
- Developed a computer vision approach for retinal layer segmentation in OCT-B images with OpenCV.
- Developed a deep learning approach for retinal layer segmentation in OCT-B images with PyTorch.
- Developed a machine learning approach for glaucoma diagnosis in OCT-B images based on features extracted from segmented layers with Scikit-learn.

Projects

Traffic Signifier

🔗 TRAFFIC-SIGNIFIER

- Developed a traffic sign detector and classifier using image processing and computer vision techniques with OpenCV.
- Developed a deep learning based solution for the same problem using PyTorch.
- Developed a combined architecture based on two state-of-the-art architectures that achieved satisfactory results.

cARd-bot

🔗 cARd-BOT

- Developed a playing cards detector for Sueca with AR components.
- Used image processing and computer vision techniques with OpenCV for proper detection of all playing cards.

Certificates

2022 Fundamentals of Deep Learning, NVIDIA

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Skills

Machine Learning	PyTorch, TensorFlow, Flower, Scikit-Learn
Python Libraries	Pandas, NumPy, Matplotlib, Seaborn, OpenCV
Programming	Python, C++, JavaScript, TypeScript, Java, SQL
Back-end	FastAPI, Express, Node.js
Front-end	React, Next, Astro, HTML5, CSS
Other	Poetry, Git, PostgreSQL, MongoDB, Yarn
Languages	Portuguese, English