TOMAS SOUSA-PEREIRA

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github.com/tospe   gitlab.com/tomassp

EXPERIENCE

Machine Learning Researcher
July, 2021 – Present

Fraunhofer Portugal $\bullet$ Porto

- Researched and developed machine learning / deep learning solutions such: predictive maintenance, anomaly detection, real world simulation, QA chatbot;
- Lectured machine learning courses to different companies;
- Lead a internal mlops group that started to introduce best practises such: code styles, experiment tracking, data versioning.

Software Engineer Freelancer
September, 2020 – July, 2021

$\bullet$ Remote

- Developed websites using Laravel Framework (octobercms) for the backend, and html/css/js or Vue.js (Nuxt) for the frontend. Also developed machine learning projects using pytorch, lightgbm.

Research Student, Master Thesis
January, 2020 – July 2020

FEUP $\bullet$ Porto

- Master thesis with the name of μ-cf2vec: Representation Learning for Personalized Algorithm Selection in Recommender Systems. Developed the framework in python using Meta learning, Representation Learning and Collaborative Filtering.

Full Stack Engineer
December, 2015 – September 2019

Junta Digital $\bullet$ Porto

- Developed websites using that boosted the sales, refreshed the image and extended the recheability of the clients by using **HTML, CSS, Javascript** and **Laravel** (OctoberCms).

Operations Intern
August, 2018 – October, 2018

EatFirst $\bullet$ London

- Managed drivers and created processes to deliver food to big companies. Optimized processes to increase the orders dispatch rate.

Research Student
May, 2013 – May, 2014

IBMC $\bullet$ Porto

- Performed a study on rats mielin. The idea was to study the patterns of mielin to relate with some diseases.
- Rat's sciatic nerve was used to conduct the study. To achieve imagesd a micro slicing technique was used, and ImageJ software was applied to analyze the image.

EDUCATION

Masters Degree in Electrical and Computer Engineering
September, 2018 – August 2020

Faculty of Engineering, University of Porto

- Specialization in Telecommunications (Networks), Electronics and Computers.

Exchange Student in Electrical Engineering and Computer Science
August, 2019 – December 2019

Hong Kong University Science Technology

- Courses: Artificial Intelligence, Search Engines and Applications, Cryptography and Security, Embedded Systems, Engineering Research

Bachelors Degree in Electrical and Computer Engineering
September, 2015 – July 2018

Faculty of Engineering, University of Porto

- Courses: Electronics, Circuits, Calculus, Statistics and Probability, Digital Signal Processing, Computers, Control Theory, Data Science.

ACHIEVEMENTS

Publication on ICDM W 2020
Paper from master thesis work. μ-cf2vec

Workshop Teacher
Teaching introduction to cybersecurity workshop at FEUP (2020)

U20 World Trophy Vice-Champion
2017 Rugby World Trophy

6th place European Championship
First and only Portuguese rugby team to beat tier 1 team (Portugal vs Scotland 2015)

Projeto 0 Presentation
During the research in IBMC presented the project in a career fair to around 2000 people

LANGUAGES

Portuguese Native

English Professional Proficiency

Spanish Conversational Proficiency

TECHNOLOGIES

python pytorch mlflow
dvc slurm docker linux
java php HTML javascript

INTERESTS

DIY Maths ML RL
Predictive Maintenance nlp
Recommendation Systems
Computer Vision Causality
Cybersecurity Recycling
Embedded Systems Sports
Food