

# Bernardo Galvão

DATA SCIENCE DEVELOPER

Portugal

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## Summary

I am currently working as an MLOps Platform Engineer and have extensive experience in Data Science; writing support tools; Linux; and Docker. I have an academic background in Economics and Advanced Analytics and am looking for an opportunity to integrate in a team that cooperates in code and infrastructure design in a view to implement end-to-end Machine Learning based systems to solve business problems. My experience covers a wide range of data science topics and have demonstrated concern in streamlining Data Science and Machine Learning workflows by writing software. I look forward to growing together with a team of like-minded software engineers.

## Work Experience

### MRIcons Ltd.

Remote

MLOPS PLATFORM ENGINEER

Oct. 2021 - TBD

- Researching and developing an **on-prem MLOps Platform** to provide end-to-end services for frictionless training, validation, deployment and monitoring of ML models based on Open-Source software.

### Champalimaud Foundation [Computational Clinical Imaging Group]

Lisbon, Portugal

RESEARCH FELLOW

Jun. 2020 - Jun. 2021

- Deployed MLFlow server for experiment tracking and data collection.
- Conducted research on performance feature selection methods applied to radiomics for clinical decision-making.
- Implemented **Target Shuffling** robustness check and **Nested Cross-Validation** procedure for use by other members in the team.

### Madeira Interactive Technologies Institute

Funchal, Portugal

COMPUTER VISION DEVELOPER CONTRACTOR

Aug. 2019 - Jan. 2020

- Implemented an **object detection viewer** and trained a marine-species object detector via transfer learning. **Mysticeti demo**. **Turtle demo**.
- Automated dataset processing, model training and Tensorflow model format conversion to TensorFlowJS and TensorFlow Lite using **Docker**, **Python** and **Bash**.

### Madeira Interactive Technologies Institute

Funchal, Portugal

DATA SCIENTIST CONTRACTOR

Jun. 2018 - May 2019

- Analyzed social media data activity levels per location, including profiling points of interest on Madeira island via topic modelling of TripAdvisor reviews with Latent Dirichlet Allocation.
- Performed data wrangling and analysis to assess performance of low-cost air quality sensors.

### Eyeware

Lisbon, Portugal

SOFTWARE ENGINEERING INTERN

Nov. 2017 - Feb. 2018

- Developed a raycasting prototype in order to produce an attention heatmap on a 3D object using NumPy and VTK in Python.

## Programming samples

- nodevo** A Rust library for supervised Genetic Programming, including Geometric Semantic Genetic Programming.
- a-priori** Hadoop project that computes association rules using the a-priori counting strategy.

## Skills

- Programming Languages** Python, Rust, Java, Nuxt.js
- Portuguese, English

## Education

- 2017 **MSc in Advanced Analytics**, Nova Information Management School :: 17/20 Grade Lisbon, Portugal
- 2014 **BSc. in Economics**, Católica-Lisbon of Business and Economics :: 14/20 Grade Lisbon, Portugal

## Research

- 2021 **Prediction of Prostate Cancer Disease Aggressiveness Using Bi-Parametric MRI Radiomics**, [\[abstract\]](#) Cancers
- 2017 **A Parallel and Distributed Semantic Genetic Programming System**, [\[abstract\]](#) CEC 2017