

# Bernardo Galvão

MACHINE LEARNING DEVELOPER

Funchal, Madeira, PORTUGAL

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## Summary

Machine learning developer with 2 years work-experience in data science and programming. Nerd who loves Linux, open source software, implementing machine learning algorithms and all things development. Interested in building software to solve challenges, and learning new technologies and tools the work requires.

## Work Experience

### Madeira Interactive Technologies Institute

Funchal, Portugal

COMPUTER VISION DEVELOPER CONTRACTOR

Aug. 2019 - Jan. 2020

- Trained a marine-species object detector via transfer learning.
- Collected and annotated training data.
- [Dockerized and wrote python and bash scripts](#) for data processing, augmentation and automation of other tasks such as quantizing models.
- Coded a video-feed detection performed by a neural network. [Mysticeti demo](#). [Turtle demo](#). [Odontoceti demo](#). [Bird demo](#).

### Madeira Interactive Technologies Institute

Funchal, Portugal

DATA SCIENTIST CONTRACTOR

Jun. 2018 - May 2019

- Social media data analysis, including profiling points of interest in Madeira via topic modelling of TripAdvisor reviews.
- Performed data wrangling and analysis to assess functioning of air quality sensors and passive wifi passenger counting.
- Developed webpage dashboard prototype.

### Eyeware

Lisbon, Portugal

SOFTWARE ENGINEERING INTERN

Nov. 2017 - Feb. 2018

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

## Education

### Nova Information Management School

Lisbon, Portugal

MSC IN ADVANCED ANALYTICS (GPA 17/20)

Sept. 2015 - Aug. 2017

- [Big Data with Hadoop](#)
- Predictive Models and Computational Intelligence for Optimization with Java
- Data Warehousing with Microsoft SQL Server
- Contributed to the publication of an [Evolutionary Computation paper](#) in a scientific venue.

### Mannheim University

Mannheim, Germany

UNDERGRADUATE EXCHANGE SEMESTER

Sept. 2014 - Dec. 2014

- Microeconometrics with STATA
- Social and Economic Networks

### Católica-Lisbon of Business and Economics

Lisbon, Portugal

BSC. IN ECONOMICS (GPA 14/20)

Sept. 2011 - Jun. 2014

- Economics, Statistics, Linear Algebra, Differential Calculus, Integral Calculus and Econometrics

## Side projects

- nodevo** A Rust library for supervised Genetic Programming, including novel Geometric Semantic Genetic Programming.
- a-priori** Hadoop project for calculating association rules using the a-priori counting strategy.
- twitter-faves** Simple pipeline to cluster my twitter likes to serve as workshop material demonstrating nltk and scikit-learn.
- cancer-img-classifier** Neural networks implemented in tensorflow and keras classifying breast scans

## Skills

- Programming** Python, Node.JS, Javascript, Java, Rust
- Web** Vue.js, Quasar Framework, HTML5, SASS
- Languages** Portuguese, English