Bruno Barbosa

Vila Nova de Famalicão, Portugal

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Education

University of Minho — *Braga, PT*

MSc in Software Engineering — *September 2021 - December 2023*

- Specialization in **Artificial Intelligence**, **Computer Vision** and **Computer Graphics**
- Final grade: 17 / 20

University of Minho — *Braga, PT*

BSc in Software Engineering — *September 2018 - June 2021*

- Final grade: 13 / 20

Skills

Programming Languages	Python, C, C++, Shell, GLSL and SQL
Languages	Portuguese (native) and English (B2)
Frameworks	Tensorflow, Pandas, Scikit-learn, ImGui, OpenMP and OpenCV
Others	Git, Linux, LaTeX and Excel

Projects

MSc Thesis - Afterthought — *Final grade: 18*

Python, Tensorflow and Keras — *2023*

Toolkit that encompasses the state-of-the-art of CNN feature visualization techniques, Activation maximization, Image proces--sing, Style transfer, Feature inversion, Attribution and Explanation

Data gathering — *Final grade: 18*

Python, Google Data Studio, TomTom API, Open Weather Map API, Pandas and Scikit-learn — *2022*

Virtual sensors (API's), Sensor fusion, Data exploration and treatment, Random Forests, Problem discussion and resolution for cities and Data visualization

GAN Art — *Final grade: 19*

Python, Tensorflow and Keras — *2022*

CycleGAN and Style transfer

Image classification on GTSRB — *Final grade: 18*

Python, Tensorflow, Keras, OpenCV and German Traffic Sign Recognition Benchmark (GTSRB) — *2022*

Computer vision, Image processing, CNN, Data Augmentation and Ensemble

Brain age prediction on Kaggle — *Final grade: 18*

Python, Pandas and Scikit-learn — *2022*

Kaggle competition , Data exploration and treatment, Random Forests, XGBoost, Data Augmentation and Ensemble

Over the Top service for multimedia delivery — *Final grade: 19*

Python, Tkinter and Core — *2022*

Over-the-top (OTT), Protocol Development, Streaming, Multithreading, UDP, Heartbeat mechanism, Routing, Flooding, RTSP and RTP.

Sales management system — *Personal project*

C, GDB and Valgrin — *2022*

Big data, MVC, Data structures, High memory scalability and performance

Wikijs deployment — *Final grade: 19*

Ansible, GCP, Kubernetes, Cloud SQL for MySQL, JMeter and Docker — *2021*

Instance scaling, Load balance and proxy, Cloud computing, Application maintenance and Deployment

Traffic classification on Kaggle — *Final grade: 16*

Python, Pandas and Scikit-learn — *2021*

Kaggle competition , Data exploration and treatment, Random Forests, XGBoost, Hyperparameter optimization and Feature engineering