

ÀLEX MARTÍ GUIU

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Data Scientist & Engineer, passionate about data and analytics, with the aim of fostering positive change in businesses and society.

EDUCATION

Swiss Federal Institute of Technology Zurich (ETHz, Switzerland) MSc in Management, Technology, Economics. Minor in Data Science	<i>Sept. 2024 – Jul 2026</i> Current Grade: 5.4/6
École Polytechnique Fédérale de Lausanne (EPFL, Switzerland) BSc Thesis, Research project @ LTS2 lab - GNNs, Contrastive Learning	<i>Feb. 2022 – Jul 2022</i> Grade: 5.5/6
Universitat Politècnica de Catalunya (UPC, Barcelona) BSc in Data Science and Engineering (4 year program)	<i>Sept. 2018 – Jul 2022</i> Grade: 8.45/10

PROFESSIONAL EXPERIENCE

Deep Learning Engineer @ AutomaticTV. (Mediapro, Barcelona) Implementation and optimization of real-time models for object detection and tracking, action recognition and video summarization. Dataset creation and management. Data Science projects for clients. Technology used: <i>Python, PyTorch, CUDA, Onnx, TensorRT, Pandas, SciPy, C++.</i>	<i>Sept. 2022 – Jun 2024</i>
AI Data Scientist Intern @ Radion Technology (Barcelona) ML and Computer Vision developer for real-time applications. Integrated and tuned YOLO & Yolact models in a RESTful pipeline.	<i>Sept. 2021 – Feb. 2022</i>

PROJECTS & AWARDS

Video & Image Segmentation for a Pharmaceutical Lab <i>Deep Learning, Python</i> Segmented videos and images of zebrafish larvae's hearts. Used image processing techniques and deep learning. Performed metrics extraction and drug toxicity classification using the segmentations. Developed the whole buisness model for the product, following Agile methodologies.	<i>2021</i>
Bitsxlamarato Hackaton winning project <i>Deep Learning, PyTorch, Telegram</i> Winners of the challenge: Do you have COVID-19 cough? Help distinguish what type of cough you have. Applied Deep Learning with CNNs. Used a Telegram bot for the interface. (Devpost) (GitHub)	<i>2020</i>
Spotify Explicit Content Predictor <i>R, OpenRefine</i> Developed an R based software that was able to extract any song's Spotify Track Features and predict weather it would have explicit content or not. Implemented trough Logistic Regression and MLP. (Link)	<i>2020</i>

TECHNICAL STRENGTHS

Languages	Catalan (native), Spanish (native), English: C2 , French: B1
Programming	Python, C/C++, R, Spark, SQL, Matlab, Amplide, Jupyter, LaTeX
Libraries	Pandas, Numpy, OpenCV, Scipy, PIL, Matplotlib, Altair, PyTorch, FastAI
Others	ML, Computer Vision, Agile, Data Analysis, Optimization, Statistics, GitHub, Jira

PASSIONS

Sports	Former field hockey player (Spainsh league), Currently Basketball & Triathlon.
Coaching	Hockey coach for 6 yrs (kids 10-18 y/o). Developed leadership and communication skills.
Teaching	Private teacher of Math (Calculus, Algebra) and Sciences.
Big fan of	Music (I play the piano), NBA, Soccer, Journalism, Neuroscience, New technologies, Chess.
Culture	Always been very attracted to other cultures and countries, really enjoy traveling.