

Eric Alcaide

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Skills

Multi-languauge coding

Python, Bash, Julia, JavaScript, C++, Web

Fast Prototyping

Public Speaking

Cloud Computing

AWS, Google Cloud

Problem Solving

Initiative, Creativity, Originality

Implementation of AI & ML to real-world problems

computer vision, sequence analysis, classification, clustering, sentiment, regression, adversarial attacks, search methods...

Teamwork

adaptability to different organizations and team structures

Projects

2017 – 2019

Open Source Projects

Created several projects and modules for scientific computing which recieved a high degree of community acceptance:

- **2019: MiniFold** 📄 : Predict protein foldings from raw sequences (AlphaFold imitation).
- **2018: Keras-WRN** 📄 : A package of Wide Residual Networks for image recognition in Keras.
- **2018: SearchMethods.jl** 📄 : The Julia package for Search Methods algorithms.
- **2017: Pysimplechain** 📄 : Python implementation of a blockchain in less than 200 lines of code.

2017 – 2018

AI Research Paper, *E-swish: Adjusting Activations to Different Network Depths* 📄

PrePrint proposing a new activation function called E-Swish which showed state of the art results in several computer vision benchmarks.

2017 – 2017

Deep Learning – Can Computers learn? 📄

Research project focused on the AI and Deep Learning field, subfields and the state of the art techniques.

- Exploration of usage of Evolutionary Strategies for architecture optimization in Neural Networks.

Professional Experience

2019 – 2020

Machine Learning Instructor, *Private Tutor*

Given personalized advice and taught Masters' students from different backgrounds (from Computational Linguistics to Biomedical Engineering) different topics: generally speaking about Data Science, AI and ML, and specifically about Text Classification, Image processing and Information representation.

Successfully advised how to carry out Masters' Thesis-level projects.

2019 – 2019 Barcelona, Barcelona	AI & ML Mentor, <i>NonProfit Hackathon for Medicine: BitsXlaMarató</i> Advised and assisted different teams during the development of healthcare and scientific solutions with a strong algorithmic component. Performed genomic analyses, clustering, HPC (high performance computing) and data visualizations of complex information. Won several prizes.
2018 – 2019 Barcelona & Lausanne	Developer, <i>Several Hackathons</i> Got awarded projects on 3 out of 4 hackathons during the past two years: an API for mobility data, a decentralized publishing platform and an AI system for psychiatric patients' follow-up. Hackathon names: Som Hackathon, Racc Innovation Challenge, HackUPC2017 and HealthHackathon Esade.
2017 – 2017 Barcelona, Spain	Data Analyst, <i>Nexow Systems</i> Applied Deep Learning models to market data analysis, characterization and prediction during the summer internship.

Education

09/2018 – present	University of Barcelona, <i>Medicine</i> Exceptional student with multiple distinctions.
2017 – 2017	Coursera, <i>Deep Learning Specialization</i> Learned about the foundations of DeepLearning, how to structure projects, computer vision, and sequential data.
01/2017 – 05/2017	Columbia University in the City of New York, <i>Artificial Intelligence</i> Master's Level Course on Artificial Intelligence (edx.org): Applying key concepts of classic AI and Machine Learning to both classic and real problems such as games and sentiment analysis.
2016 – 2018 Barcelona, Spain	Pare Manyanet Les Corts, <i>High School</i> Graduated with Honours - 99.5% Participated in the Debates club, got selected for Physics and Chemistry olympiads, scored top 1% of my region in Cangur (Mathematics contest) and received a honorific mention from a EU translate contest.

Languages

Spanish

Native

English

C2 level

German

A2

Catalan

Native