

ERIC ALCAIDE ALDEANO

Medicine Student and AI developer

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I'm a first year Medicine student with many interests and passion for side projects. My interests include AI, Deep Learning and Bioinformatics. I also like to explore new ideas and topics and love Public Speaking. I'm in a continuous process of learning about Deep Learning applications to Bioinformatics.

SKILLS

- **Multi-language coding (Python, Julia, C++, Bash, JavaScript, PHP, Ruby and web)**
- Experience with Cloud Computing (AWS, Google Cloud...).
- Implementation of **Artificial Intelligence** and **Machine Learning** algorithms with application in Data Science:
 - Examples include computer vision, classification, clustering, sentiment, regression, adversarial attacks, search methods, time series prediction...
- Fast prototyping of ideas and projects.
- Problem Solving with Initiative and Creativity.
- Teamwork and Leadership.
- Public Speaking, Presentations and Debates.

EXPERIENCE

Open Source Projects: Created several projects and modules for scientific computing which received 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.

AI Research:

- **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 hyperparameter optimization in Neural Networks.
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- **2018:** [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 - 2018: Hackaton Developer

- Got awarded projects on 3 out of 4 hackathons during the past two years: a platform 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.

Summer 2017: Data Analyst Internship at Nexow Systems

- Applying Deep Learning models to market data analysis, characterization and prediction during the summer internship.

EDUCATION & EXTRACURRICULAR FORMATION

- **Spetember 2018 – Present: Medicine** at University of Barcelona – Hospital Clínic.
- **2017 - Deep Learning Specialization** by deeplearning.ai on Coursera: Learned about the foundations of DeepLearning, how to structure projects, computer vision and sequential data.
- **2017 - Artificial Intelligence Columbia University** – 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.
- **September 2016 – June 2018: Bachillerato** (High School equivalent): Colegio Pare Manyanet Les Corts (Barcelona). Final Average Grade: 9.95/10.
 - Participated in the Debates club, got seleted for Physics and Chemistry olympiads, scored top 1% of my region in Cangur (Mathematics contest) and recieved a honorific mention from a EU translate contest.

LANGUAGES

- **Spanish:** Native Level
- **Catalan:** Native Level
- **English:** Advanced Level (both written and spoken)
- **German:** Basic Level