Gerard Castro Castillo

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Summary

Co-founder and **CTO** at Nebbo with a strong foundation in Mathematics, Physics, and Data Science. Proven expertise in computing, mathematical modelling, AI architecture, and team leadership. Passionate about driving innovation and deploying state-of-the-art solutions to create lasting, positive impact.

Education

University of Barcelona, Barcelona   *2022 September - 2024 July*

MSc on **Data Science**: 9.13/10.00. MSc Thesis with honors on distribution-free model-agnostic uncertainty quantification (Presentation, Repo).

Autonomous University of Barcelona, Barcelona   *2016 September - 2021 July*

BSc on **Mathematics**. Honors in Computing & programming, Galois Theory, and Differential Geometry.
BSc on **Physics**. Honors in Chemistry and Numerical PDE Integration.

Skills

Programming Languages	Python, bash, SQL, R, C
Data Analysis Toolkit	numpy, pandas, scipy, xarray, dash, PIL
ML & DL Toolkit	scikit-learn, OpenCV, statsmodels, Keras, Tensorflow, Pytorch
Other	GCP suite, HPC architecture design, FastAPI, Plotly, git, cdo, ncview, MongoDB, MySQL
Native-level languages	Catalan, Spanish, English

Relevant experience

Nebbo Weather Solutions   2024 January - Present

Chief Technical Officer   *Barcelona, Spain*

Directing company's technical vision, R&D, and engineering teams.

- **Tasks**: AI architecture design, product ownership, and driving strategic initiatives including funding, market expansion, equity, and customer engagement.

Vortex Factoria de Càlculs   2021 May - 2024 January

R&D Data Scientist   *Barcelona, Spain*

Lead developer of the seasonal forecasting product.

- **Tasks**: ETL process of C3S (sub)seasonal models, ensemble systems' calibration and AI post-processing using statistical, on-demand deployment (interface and an API)...

Clinicgram   2022 June - 2022 September

Deep Learning Expert   *Barcelona, Spain*

Leading the development of the chronic wound diagnosis project:

- **Tasks**: applied discriminative AI for medical image annotation using ViT, implemented chronic wound risk prognostic using ML classifiers and thermal image...

Interests and passions

Academic	Trustworthy XAI, uncertainty-aware modeling, physics-informed NN
Personal	BJJ, diving, coding for fun, data science competitions (Kaggle), fiction literature
Communication	Guest speaker at UViC, investor & accelerator pitches, technical conferences (e.g. Wind Europe Technology Workshop)