

Daniel Lozano

Data Scientist / ML Engineer

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PROFESSIONAL EXPERIENCE

NEWTONLAB SPACE

Barcelona, Spain

Senior Data Scientist

08/2023-Present

- **Developing** and **implementing** an in-house **computer vision system** for making recommendations to customers looking at our holographic cabins. The process includes gathering training data, **building** the machine learning algorithm, **training** and fine-tuning the model, **deploying** in a **production environment**, and **monitoring** the different statistics of customers.
- **Lead** a multidisciplinary team of developers, 3D artists and technical artists to create a holographic avatar. It can understand and process **natural language**, generate an answer based on the information provided, and speak naturally in **multiple languages**.

UNIVERSITY POMPEU FABRA

Barcelona, Spain

Adjunct Professor (MSc in Management)

01/2024-Present

- **Main lecturer** in the course Practical Data Science for Management. It is a hands-on course where I teach the **most used machine learning algorithms** and the **best practices** to implement them in Python.
- Some of the topics covered are: **Linear Regressions**, Regression Trees, Sigmoid Classifiers, Decision + Random Trees classifiers, **XGBoost**, Support Vector Machines (**SVM**) and Churn Models.

Adjunct Professor (BSc in Economy)

09/2022-09/2024

- Teaching in the seminars of “**Financial Derivatives and Risk Management**”.
- Main topics are **price computation** for forwards, futures, and options, Monte Carlo and random walk simulations and statistical analysis using Python.

DATA INNOVATION LAB

Barcelona, Spain

Lead Data Scientist

05/2021-07/2023

- **Create from scratch** all Data and AI branches of the company, **leading a multidisciplinary team** to a successful development of end-to-end solutions.
- **Train and fine-tune** deep learning models using architectures such as **dense layers**, **LSTM** and **transformers** (BERT and RoBERTa), to analyze large quantities of text.
- **Desing** dashboards and KPIs to monitor all the machine learning pipelines.
- **Explore new ways of applying AI** from political analysis to social interactions.

OMNIO

Copenhagen, Spain

Data Entry

05/2019-07/2020

- **Extract, transform and load** (ETL) the information needed from different manuals and websites to feed our edge software.
- **Automatize** the processing of the data collected using excel macros, to assert the high quality we need.

EDUCATION

UNIVERSITY OF COPENHAGEN (NIELS BOHR INSTITUTE)

Copenhagen, Denmark

MSc Degree in Quantum Physics and Cosmology

09/2018-06/2020

UNIVERSITAT DE BARCELONA

Barcelona, Spain

BSc Degree in Physics

09/2012-01/2018

ADDITIONAL INFORMATION

- Technical Skills: Python, SQL, Data Science, Machine Learning, Git, Algorithms, Computer Vision, Data analysis, Agile, Data Visualization, Azure, Business Intelligence, Research, Data Engineering, Artificial Intelligence, NLP, Docker.
- Soft Skills: Creative, Problem Solving, Team Lead, Analytical, Teamwork
- Languages: English (professional, C1), Spanish (native), Catalan (professional)
- LinkedIn: www.linkedin.com/in/daniel-lozano-gomez/
- Personal Webpage: www.daniel-lozano-gomez.com/

ADDITIONAL PROJECTS

ASTROPHYSICS INTERNSHIP, VIA UNIVERSITAT DE BARCELONA

Barcelona, Spain

Physicist

09/2015-06/2016

- **Numerical simulations**, using Fortran90, of the synchrotron radiation emission of active galactic nuclei due to obstacles in the jets.