Esteban Sánchez

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About me

I am passionate about artificial intelligence and complex systems, with a solid foundation in mathematics, physics, and data science. My academic and professional trajectory reflects a deep interest in understanding and modeling the world through mathematics and data. Hence my two postgraduate degrees in data science and complex systems. My work experience ranges from data analysis and the development of artificial intelligence solutions to trading, demonstrating a unique versatility and ability to adapt in various projects and environments. I enjoy using an analytical and data-driven approach to solving complex problems, combining my passion for science and technology with practical skills in programming, data analysis, and machine learning.

Academic Experience

UNIVERSIDAD POLITÉCNICA DE MADRID (UPM)
Collaborative Researcher in Complex Systems (GSC)   Remote, 2023.04 – Currently
- R&D in social behaviour in social networks as Twitter through socio-physics models.

Professional Experience

BRAVENT
Senior Data Scientist - AI, full time job   Remote, 2023.06 – Currently

- R&D in NLP and computer vision solutions.
- Design AI solutions and managing tasks to success on projects.

DECIDE4AI
Senior Data Scientist, full time job   Remote, 2021.08 – 2023.04

- Develop and deploy solutions machine learning based according to business. These solutions involve recommender systems, binary classification models, forecasting methods, segmentation models and buy propensity score following MLOps standard.
- Manage a small team of 3 supervising the quality of projects and providing support to the colleagues.
- Develop and defend PoC and proposals to new clients.

VODAFONE GROUP
Specialist Data Scientist, full time job   Hybrid, 2019.08 – 2021.03

ERNST & YOUNG
Data Scientist, full time job   Madrid, 2019.04 – 2019.06

INDIZEN TECHNOLOGY & BUSINESS CONFLUENCE
Data Scientist Junior, full time job   Madrid, 2017.10 – 2019.04

Educator Experience

THE BRIDGE – DIGITAL TALENT ACCELERATOR
Data Scientist Lead Instructor, part time job   Madrid, 2020.02 – 2021.10

IMMUNE TECHNOLOGY INSTITUTE
Unsupervised learning instructor, part time job   Remote, 2020.06

Education

UNIVERSIDAD NACIONAL DE EDUCACIÓN A DISTANCIA (UNED)
Master in Physics of Complex Systems   Madrid, 2020.09 – 2023.10
- Honors in Fluctuations in Dynamical Systems and Statistical Mechanics of Complex Fluids.

KSHOOL
Master in Data Science   Madrid, 2018.10 – 2019.05

UNIVERSIDAD COMPLUTENSE DE MADRID (UCM)
Degree in Physics, Fundamental Physics Specialization   Madrid, 2012.09 – 2018.02

Related Education

COURSERA
Machine Learning Andrew NG
Deep Learning Specialization

Publications & Participations

T3CH FEST
Course "Who knows you better, the AI or your friend? Setting up a recommendation engine."
t3chfest.es/2023/programa/quien-te-conoce-mejor-ia-motor-recomendacion   Madrid, 2023.02.25

PyConEs
Manage the talks proposed by the company.
charlas.2022.es.pycon.org/pycones2022/talk/NXGNSB/   Granada, 2022.10.02

PHYSICS NUCLEAR B
Shannon entropy and particle decays.
doi.org/10.1016/j.nuclphysb.2018.04.003   2018.04.10

Personal Work Experience

ALGORITHMIC TRADER   2021.09 – Currently
- Develop trading strategies based on technical indicators.
- Automatize chartist trading strategies.
- Research and develop trading strategies based on artificial intelligence and how to use AI to improve strategies.
- Optimize assets management.

Technical Skills	Domain Skills	Soft Skills
Python, PySpark, GIT, SQL	Recommender Systems	Communicator
Pandas, Numpy, Scikit-learn, Keras	Classification Models	Sense of humor
Tensorflow, Flask, Darts, XGBoost	Clustering Models	Autodidact
Shap, Pytorch, Transformers	Forecasting, NLP, CV	Resilient
AWS, SageMaker, GCP, Airflow, Azure	Churn	Entrepreneurial mindset
NetworkX, SSD, EfficientNet		