Carlos **Aumente Maestro**

DATA SCIENTIST · PHYSICIST

Dublin, Ireland

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Work Experience

Senior data Scientist   *Dublin, Ireland*

ACCENTURE IRELAND - THE DOCK   *Sep. 2021 - PRESENT*

- Running optimization algorithms such as linear programming or meta-heuristics
- Designing distributed pipelines by means of PySpark

Undergraduate student   *Online, Spain*

PART TIME   *Sep. 2021 - PRESENT*

- Researching in computer vision applied to biomedical images
- Dealing with automatic brain tumor segmentation on MRI

Data Scientist   *Madrid, Spain*

TELEFONICA IOT & BIG DATA   *Sep. 2019 - Sep. 2021*

- Currently developing machine learning end-to-end solutions over time series data
- Developed an Anomaly Detector Platform using supervised and non-supervised algorithms
- Built multiple visualizations using tools like Power BI or Python libraries such as Plotly, Seabron & Matplotlib
- Worked over an Agile methodology and using Jira as tool for tracking the project progress
- Experience with several tools and solutions such as Git, Splunk, Linux, Jupyter, SQL & Airflow

Data Scientist   *Madrid, Spain*

DELOITTE FINANCIAL ADVISORY   *Feb. 2018 - Sep. 2019*

- Developed ETL solutions - from data extraction to data bases creation
- Advanced analysis and modelling financial data
- Building visualization to evaluate the main financial assets & KPI's

Software Developer   *Madrud, Spain*

ACCENTURE TECHNOLOGY   *Feb. 2017 - Feb. 2018*

- Involved with structured databases solutions and their maintaining
- Experience with GNU/Linux distributions and control version systems

Scholarship   *Madrud, Spain*

ROYAL SPANISH SOCIETY OF PHYSICS   *Jan. 2016 - Jun. 2016*

Education

M.S. in Research in Artificial Intelligence   *Online, Spain*

SPANISH ASSOCIATION FOR AI & UIMP   *Sep. 2019 - Sep. 2021*

- Major in Learning and Data Science

Bachelor Degree on Science Physics   *Madrid, Spain*

COMPLUTENSE UNIVERSITY OF MADRID   *Sep. 2012 - Jun. 2016*

- Major in Theoretical Physics

Skills

Programming	Python, SQL, R, Scala
Data science & AI libraries	Pandas, NumPy, SciPy, Scikit-learn, Keras, TensorFlow, PyTorch
Data visualization	Tableau, Power BI, Matplotlib, Seaborn, Plotly
Databases	MySQL, Microsoft SQL Server, ClickHouse, MongoDB
Tools	Airflow, Jupyter, Git, Anaconda, Linux, Spark, Splunk, Jira, Azure
Languages	Spanish (native), English (intermediate)

Research projects & Publications

M.S. in Research on Artificial Intelligence, master's thesis *Madrid, Spain*

Author of: "Automatic Brain Tumor Segmentation on Magnetic Resonance Imaging" *Jul. 2021*
- Using artificial intelligence techniques for automatic segmentation of brain tumors in medical images for treatment planning

Bachelor degree on Science Physics, bachelor's thesis *Madrid, Spain*

Author of: "Muonic Atoms" *Jun. 2016*
- Analyzing muonic atoms and their structure from both perspectives, theoretically and numerically.

Certifications & Courses

Now	**AI for Medical Diagnosis**, Coursera	*Online*
2021	**Reinforcement learning**, Krisolis	*Dublin, Ireland*
2021	**Self-supervised machine learning**, Krisolis	*Dublin, Ireland*
2020	**Apache Spark Streaming**, Udemy	*Online*
2019	**Data Analysis with Python**, Cognitive Class	*Online*
2019	**Deep Learning Fundamentals**, Cognitive Class	*Online*
2019	**Accounting course training**, Deloitte Financial Advisory	*Madrid, Spain*
2018	**Scrum Master**, Udemy	*Online*
2018	**Statistics with R**, DataCamp	*Online*
2018	**Intermediate Python for Data Science**, DataCamp	*Online*
2018	**Introduction to Shell for Data Scientist**, DataCamp	*Online*
2017	**Training course in Java**, Accenture Technology	*Madrid, Spain*
2017	**Intro to SQL for Data Science**, DataCamp	*Online*
2017	**Intermediate R for Data Science**, DataCamp	*Online*
2016	**R tutorial on Machine Learning**, DataCamp	*Online*
2016	**Basic Statistics with R**, DataCamp	*Online*
2016	**Data Visualization with ggplot2**, DataCamp	*Online*
2015	**Course on Introduction to Research on Matter Structure**, CSIC	*Madrid, Spain*