MIGUEL LA CRUZ P.
Data Scientist - MSc. Computer Engineering

EDUCATION

DevOps/AIOps Specialization — 2026
Akhilesh Mishra

Intensive DevOps training with real life use cases examples and deployments.

M.Sc. in Computer Engineering and Mathematics — 2024 - 2025
Universitat Oberta de Catalunya - Universitat Rovira I Virgili (Spain)

Thesis project: Resource Provisioning Optimization of Cloud Resources for Big Data Analytics Pipelines.

Data Science Specialization — 2022
TheBridge: Digital talent accelerator (Spain)

Data cleaning and QC project: Well log reconstruction with Python.

Geological Engineering — 2014 - 2019
Universidad de Oriente (Venezuela)

Thesis project: Optimizing well log information through workflows applying data correction, editing and preparation for reservoir characterization and seismic analysis in areas located in North and South America.

PERSONAL INFO.

* Mail: miguellacruz.data@gmail.com
* Address: Madrid, Spain
* [LinkedIn](#)

LANGUAGES

* Spanish: Native
* English: Professional
* German: Beginner

SKILLS

- **Data:** Python, SQL, Spark, Dask, BI tools, NoSQL
- **ML:** Forecasting, Optimization, Pricing, Clustering
- **Cloud:** AWS/Azure, Kubernetes, Docker
- **Backend:** APIs, Django, C++

WORK EXPERIENCE

Data Scientist (Aviation) — Mar 2025 - Pres.
IberiaExpress, Madrid Community, Spain

Improving and developing Machine Learning models for commercial and operations teams, automating processes, building scheduling optimization algorithms, deploying and monitorizing dynamic pricing models.

Cloud R&D Engineer — Jan 2025 - S 2025
Cloud and Distributed Systems Lab (URV)/Madrid, Madrid Community, Spain

Research and development project in collaboration with Universitat Rovira i Virgili optimizing cloud resources for big data ETL pipelines related to climate change analytics using Dask, Kubernetes, AWS.

Lead Instructor: Data Science — F 2023 - S 2024
BBK - The Bridge/Bilbao, Bizkaia, Spain (1 yr.7 mo.)

Trained learners through a comprehensive Data Science curriculum, covering topics such as machine learning, big data, and data analytics. Collaborated with local companies to identify digital transformation opportunities and developed projects to address their specific needs.

Data Scientist (Energy) — Jan 2020 - N 2021
Inter-Rock/Lecherías, Anzoátegui, Venezuela (2 yr.)

Contributed to data-driven decision making in the fields of petrophysics and geophysics for reservoir exploration and characterization. Improved data QC and workflows from complex environments using advanced techniques of machine learning, mathematics and statistics.

TRAINING COURSES

3D Seismic *by Rosario Rivadulla (2018)*, **Well log prediction and rock properties using neural networks and fuzzy logic** *by PHD José Regueiro; PHD Milagrosa Aldana (2021)*,**Machine Learning** *by Andrew Ng (2021)*, **Full Artificial Intelligence Course With Python** *by Frogames (2022)*.

PORTFOLIO/PUBLICATIONS

* Workflow for quality control, adaptation and preparation of well log data in reservoir characterization and seismic analysis projects. Case studies in North and South America.

* ERP deployment with Django, React, Postgres, Docker.

* Travel AI Agent with OpenAI and GoogleMaps APIs, Langchain.

* Building a recommendation system with clustering and GenAI.