

Sergio Marrero

Applying for: ## Engineer

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Experience

- Principal Data Engineer** Eurofirms | Eurofirms Group 01/2022 - Present
- Co-created the company's ETL and Data Warehousing platform, ensuring scalable and efficient data management.
 - Managed and mentored junior team members, fostering skill development and ensuring project alignment
 - Led the integration of HR data from multiple countries (Spain, Portugal, Italy, Chile)
 - Optimized ETL pipelines using SSIS and Azure, improving data processing and reporting efficiency
 - Collaborated with cross-functional teams to deliver data insights and support business decision-making.
 - Tech Stack: 🐍 Python, ☁ Azure, 📦 Git
- Principal Data Scientist | ML Engineer** Cornerjob | Eurofirms Group 07/2020 - 01/2022
- Developed and conducted research on NLP and large language models (LLMs) applied to human resource data.
 - Deployed NLP models to production, from code integration to scalable endpoints using SageMaker
 - Led the antifraud team in dataset annotation, facilitating the training of high-performance fraud detection models
 - Assisted in maintaining the antifraud tool built in Django
 - Tech Stack: 🐍 Python, 🤗 HuggingFace, 📄 spaCy, 🗄 SQL, ☁ AWS, 🍷 Django,
- Data Scientist** Vueling Airlines, S.A. 03/2020 - 06/2020
- Built and optimized supervised and unsupervised ML models.
 - Collaborated closely with the customer department to ensure alignment with business needs
 - Tech Stack: 🐍 Python, 🗄 SQL, ☁ AWS, 📦 Git
- Quantitive Researcher** Quantified Statistics & Data Analysis 09/2016 - 03/2020
- Research and develop statistical and probabilistic models and methods for sport betting markets
 - Tech Stack: 🐍 python, 📊 R, 📦 Git, 📈 Stan, PyMc

Education

- University Institute of Intelligent Systems and Numerical Applications in Engineering.** ULPGC, Spain
- PhD Student: Bayesian Deep Learning 09/2016 - 09/2018
- M.S. in Intelligent Systems and Numerical Applications in Engineering 09/2015 - 09/2016
- University of Las Palmas de Gran Canaria.** ULPGC, Spain
- M.S. in Industrial Electronic and Optimal Automatic Systems 09/2013 - 09/2015
- B.Eng. in Industrial Engineering 09/2007 - 09/2013

Publications

- P1 **Optimization and Heuristic Methods Applied to Morgenstern-Price Slope Stability Analysis: A Comparative Study**
2nd Applied Computing in Science and Engineering (ACSE2) ScienceKnowconferences, Canary Islands, Spain
ISBN: 978-84-697-4340-9
- P2 **Stochastic Monte Carlo-Based Integration of Renewable Energy Sources in Low Voltage Distribution Networks: Case Study of a Small Wind Turbine**
7th International Congress on Energy and Environment and Management (CIEM7) ScienceKnowconferences, Canary Islands, Spain
ISBN: 978-84-697-4150-4

General Skills

Programming Languages / Tools: 🐍 Python, 🗄 SQL, 📊 R, ☁ AWS, ☁ Azure, PyTorch, TensorFlow, HuggingFace, SpaCy, Redshift

Languages: Spanish (native), English (proficient)

Awards and Honors

Cum Laude, Graduate Thesis, Optimization Techniques in Morgenstern-Price Slope Stability Calculation09/2015
Software