

Sergio Marrero

Data Scientist - Machine Learning Engineer

Data Scientist-Machine Learning Engineer with professional experience on A-Z machine learning projects and used to work on agile-minded data teams. I spent the last year developing **Deep Learning Architectures** applied to **Natural Language Processing (NLP)**. I define myself as a passionate worker, which is why I like to work with passionate coworkers. **I am looking for a position closer to backend engineering.**

Personal Info

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Date of birth

1987-12-03

WWW

<https://rpubs.com/SergioMarrero>

GitHub

<https://github.com/SergioMarreroMarrero>

LinkedIn

www.linkedin.com/in/sergio-marrero


Software

Python 

R, SQL

Python ML stack 

Languages

English 

Spanish 

Experience

**2020-07 -
present**

Data Scientist Specialist

CornerJob | Eurofirms Group

Principal Tasks:

- **A-Z Deep Learning Model for candidate's photography acceptability prediction**
 - *Description:* Development and deployment of a candidate's photography acceptability prediction
 - *Technologies/tools used :* Deep Learning (Transfer learning) architecture, Python, Pytorch, AWS
- **A-Z Natural Language Processing (NLP) model development to detect fraudulent and scam offers intentionality.**
 - *Description :* Natural language processing model to detect fraudulent intent and spam in user's offers
 - *Technologies/tools :* Python, Hugging Face, Deep Learning: Transformers (BERT), CNNs, word embeddings. Pytorch, Spacy, AWS
- **Natural Language Process POCs (proof of concept)**
 - *Description:* Other NLP models were developed but not implemented in the production environment. For example:
 - Name Entity Recognition (NER) to detect jobs position inside the offers
 - NER + *Linguistic* Desambiguation to detect context spam words
 - *Technologies/tools:* Python, Hugging Face, Transformers (BERT), Pytorch, Spacy, AWS, Word2vec representation, AWS
- **Design and create dataset annotation processes**
 - *Description:* Data infrastructure development and team coordination to label new samples with the goal of building an NLP model in top of that.
 - *Technologies/tools:* prodigy, PostgreSQL, SQLite
- **Maintenance and improvement of the backend of the web application used by the moderation team to detect fraudulent content and spam.**
 - *Description :* Acquisition of new requirements, debugging and improving the processes, planning and proposing new functionalities to be implemented, coordination with stakeholders
 - *Technologies/tools:* Python, Django, ElasticSearch, MongoDB, AWS
- **Statistics Analysis - AB testing:**
 - *Description:* Statistical tests and data visualization in order to understand and validate hypothesis or expand data knowledge

	<ul style="list-style-type: none"> • <i>Technologies/tools:</i> Python, Pandas, scipy, pymc3, altair, plotly, matplotlib, seaborn
2019-03 - 2020-07	Data Scientist <i>Vueling Airline</i> Principal Tasks: <ul style="list-style-type: none"> • A-Z unsupervised machine learning model <ul style="list-style-type: none"> • <i>Description:</i> Development and implementation of a customer segmentation model to segment customers based on their purchasing patterns and behavior • Technologies/tools: Python, scikit-learn, kmeans, pandas, PCA, AWS • A-Z supervised machine learning model for Business-Leisure probability prediction <ul style="list-style-type: none"> • <i>Description:</i> A-Z ML project to predict Business-Leisure probability • Technologies/tools: Python, R, sklearn, Spark, Hive, xgboost, AWS
2017-07 - 2019-01	Data Scientist <i>Quantified Statistics & Data Analysis</i> <i>Principal Tasks developed:</i> <ul style="list-style-type: none"> • Developing statistical and probabilistic models for betting markets • Technologies/tools: R, Python, tidyverse, environment, shinyapps, beatifulsoup, sklearn, JAGS
2017-03 - 2017-06	Data Scientist Junior <i>Domingo Alonso Group</i> <i>Principal Tasks developed:</i> <ul style="list-style-type: none"> • Cleaning and preparing data sets for analysis with R • A/B testing machine learning models
2016-01 - 2017-02	Collaboration grant for research at the University Institute of Intelligent Systems SIANI <i>Las Palmas de Gran Canaria University</i> Supporting to the University Institute of Intelligent Systems SIANI in ULPGC



Education

2017 - present	PhD Student in Bayesian Deep Learning Thesis Title: <i>Contributions to the Uncertainty on Deep Learning Models (Bayesian Deep Learning)</i> University: <i>Las Palmas de Gran Canaria University</i> University Institute: <i>University Institute of Intelligent Systems and Numeric Applications in Engineering SIANI</i> <i>(PhD Thesis was not submitted)</i>
2016	M.Sc Intelligent System and Numeric Application on Engineering <i>(Master Thesis was not submitted)</i>
2007 - 2014	Industrial Engineering with mention on Optimal Systems and Digital Electronic <i>These studies are equivalent to: B.Sc + M.Sc</i> <i>Thesis delivered with Cum Laudem</i>



Publications and Congresses

2017-07	A comparison study of the Morgenstern-Price methods coupled with a heuristic optimizer for slope stability analysis. ISBN: 978-84-697-4340-9, Edited by: ScienceKnowconferences, Canary Islands, Spain (2nd Applied Computing in Science and Engineering (ACSE2))
2017-06	Integration of renewable sources of energy in low voltage distribution network. Case small wind turbine. ISBN: 978-84-697-4150-4, Edited by: ScienceKnowconferences, Canary Islands, Spain (7th International Congress on Energy and Environment and Management (CIEM7))
2017-06	Sustainable energy application in a multifunctional industrial warehouse. ISBN: 978-84-697-4150-4, Edited by: ScienceKnowconferences, Canary Islands, Spain (7th International Congress on Energy and Environment and Management (CIEM7))



Additional Activities

2017-05 - 2017-07	Dr. Stetter ITQ <i>Organizer and instructor of a Deep Learning Workshop</i> Organizer and instructor of the Workshop: <i>Deep Learning (first edition in ULPGC-SIANI)</i> refunded by German tech company named Dr. Stetter ITQ
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