

Miguel Parracho

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Visit my (work in progress) [Website](#)

Tech Lead with 7+ years of experience in Data & AI Engineering, delivering end-to-end solutions across Telecom, FinTech and AdTech. Proven track record building high-performance and scalable data platforms, developing and deploying ML models to production, and leading teams to drive innovation, cost optimisation, and measurable business impact. Skilled in bridging stakeholders and engineering, with expertise spanning MLOps, large-scale data architectures, and AI solution design. Eligible to work in the UK & EU; open to relocation to the UAE.

Skills

Coding	Python, SQL, Bash, HTML/CSS, Javascript (basic)
Data Tools	Spark, Databricks, Druid, Kafka, Airflow, Snowflake, dbt, Elastic, Hadoop Ecosystem, PostgreSQL
AI/ML	PyTorch, LLMs, RAG, Transformers, Scikit-Learn, Tensorflow, HuggingFace, OpenAI, Pydantic, LangChain
Cloud/MLOps	AWS, GCP, Azure, Git, Docker, Kubernetes, FastAPI, Jenkins, Terraform, Linux, MacOS
Methodologies	Agile Scrum & Kanban, TDD, SOLID Principles, Data Modeling
Languages	English (fluent), Portuguese (native), Spanish (basic)
Other	Crypto, Web3, Agentic Systems

Professional Experience

Senior Data Engineer | Global Media

London, UK | Apr 2023 – Jun 2025

- Led a team of engineers, driving an engineering culture of continuous improvement and innovation.
- Spearheaded SDLC and Stakeholder management, taking business requirements from 0 to 1 in Data & AI domains.
- Introduced platform-level cost optimisations and governance initiatives on AWS, saving \$400,000 YoY.
- Improved performance of reporting analytics, achieving 400x faster results in Snowflake.
- Implemented data backfilling solution 25x faster than the previous process, enabling intra-day backfills and ML model retraining.
- Built and optimised TB-scale real-time data pipelines ETL pipelines (Databricks, Airflow).
- Implemented CI/CD automation and microservice-based refactor of legacy data flows.
- Developed a Python framework to interface with Druid REST API and streamline ingestion.
- Collaborated with cross-functional stakeholders including DAX Director, POs and other Data/ML leaders.

Data Engineering Consultant | Marionete - Bank of England (Client)

London, UK | Nov 2020 – Mar 2023

- Automated EDA and data quality assurance pipelines, standardising validations and accelerating ML developments.
- Developed a Python framework leveraging Livy and Spark APIs to simplify data access for Data Scientists, abstracting away security and authentication complexities.
- Optimised platform performance, identifying and resolving bottlenecks to increase Data Platform capacity by 30%.
- Migrated ETL pipelines from legacy systems to the new Data Platform, improving scalability and maintainability.
- Introduced design pattern best practices in Spark, applied in the new SFTR ETL pipeline.
- Led the implementation of the SFTR (Securities Financing Transactions Regulation) pipeline, ensuring EU compliance and delivering critical infrastructure for market transparency and systemic risk supervision.

Data Solutions Consultant | Capgemini - Vodafone, NOS, EDP (Clients)

Lisbon, PT | Feb 2018 – Oct 2020

- Engaged directly with client stakeholders — including C-Level executives — to translate business needs into data-driven solutions.
- Designed and built a Big Data Analytics Platform* (Hadoop, Elastic and other), from the ground up. Integrated 50+ data sources enabling service monitoring, automated troubleshooting, and predictive analytics.
- Developed, trained an Anomaly Detection ML model, achieving 94% accuracy. When deployed to production into the platform*, it reduced the client's troubleshooting time by 90%, saving €200K in OPEX in year one.
- Provided platform training, support, and knowledge transfer to ensure adoption, scalability, and long-term sustainability of solutions.
- Delivered Smart CAPEX system for financial valuation of mobile network cells, supporting over €10M strategic investment decisions through advanced forecasting.

Education

Machine Learning Institute

AI Residency - Advanced Deep Learning and GenAI

London, UK | 2025

Instituto Superior Técnico (IST)

MSc Telecommunications and Informatics

Lisbon, PT | 2017 – 2018

Instituto Superior de Engenharia de Lisboa (ISEL)

BEng Electronics, Telecommunications and Computers Engineering

Lisbon, PT | 2014 – 2017