

Miguel Duarte

Title: Director of Data Strategy, Samsung Iberia

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Summary

Senior leader in data strategy and analytics with over 25 years of experience across AI, Business Intelligence, and Data Governance. Proven track record in delivering complex AI/ML initiatives, building enterprise-grade data warehouses, and managing full-lifecycle digital transformation programs. Former academic researcher in AI with ongoing mentorship of postgrad research.

Certifications: PMI, Microsoft AI Fundamentals.

Languages: Native Portuguese, fluent in English.

Experience

2025 – EcoTech Petroleum

- As Director of AI Ethics, led the creation of an Ethical AI governance model used to review algorithmic fairness, transparency, and compliance. Built interdisciplinary task forces and hosted workshops across departments to align on responsible AI practices.

2024 – AgroVerde Solutions

- Oversaw the development of an intelligent document assistant chatbot for agronomic data. Applied RAG with Azure OpenAI to extract expert insights from manuals and technical bulletins. Managed the DevOps release pipeline and ensured multilingual capabilities.

2023–2024 – MegaMart Europe

- Replaced legacy IVR systems with conversational AI using LLMs. Directed the architecture of a full-stack GenAI voice and chat bot platform, implemented real-time analytics for conversation quality monitoring, and integrated with CRM and service desk tools.

2023–2024 – GasPro International

- Implemented deep learning predictive models for monitoring critical pipelines. Created a digital twin simulation to proactively detect failures. Coordinated cross-site data collection using IoT sensors and ensured model retraining through feedback loops.

2022–2024 – VoxReach Contact Centers

- Led the implementation of a unified analytics layer spanning 20 countries. Designed a DW architecture based on Azure Synapse, introduced Power BI governance, and defined 600+ KPIs after extensive stakeholder mapping.

2021 – HydroNet Power Co.

- Directed AI development for geospatial modeling of vegetation near power infrastructure. The solution integrated satellite imagery, LiDAR data, and ML forecasting tools to reduce inspection costs.

2020 – São João Medical Center

- Managed a pandemic-driven AI project using hospital datasets. Built a Python-based model for predicting ICU admission needs based on patient diagnostics. Facilitated real-time dashboards for hospital management.

2020 – TerraNova Vineyards

- Designed an AI system to predict grape yield over 20 years using climate models. The system allowed for scenario testing and helped secure funding through evidence of resilience to global warming.

2019 – BlueTrack Logistics

- Applied unsupervised ML techniques to detect delays and anomalies in fleet logistics. Results were integrated into scheduling software to reduce late deliveries by 18%.

2018–2020 – BlueTrack Logistics

- Architected a new BI platform integrating Azure Data Lake and SQL DWH. Developed Power BI reporting hierarchy with access control, enabling strategic monitoring by department heads.

Education

Instituto Superior Técnico

Mechanical Engineering (pre-Bologna)

Skills

- Enterprise Data Strategy & Governance
- AI/ML: Forecasting, Classification, Simulation
- Platforms: Azure Data Factory, Synapse, Databricks, Power BI
- Languages: Python, SQL
- Libraries: Pandas, Scikit-learn, TensorFlow
- Fluent in English, native in Portuguese