NTT DATA

Leading European Energy Company | Spain | Innovation & AI

ML Framework and AI Governance

Client profile

This is one of the three major companies in the electricity sector in Spain, which, along with the other two, collectively dominate around 90% of the national electricity market.

Why NTT DATA?

- We build innovative, industry-leading solutions that grow enterprises' revenue and keep them ahead the competition.
- We take advantage of the growing convergence of IT and connectivity services to connect people and things.
- We manage companies' applications, data and infrastructure to decrease costs and create greater efficiencies.

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"Thanks to this project, the development of future analytical projects is facilitated, providing both technical support and guaranteeing that a standardized methodology is followed, optimizing resources and allowing close monitoring of the solutions once they are industrialized."

Marta Pastor Villalobos, Tech advisory manager – NTT DATA

Business need

The client wanted to define a corporate governance model to manage all Analytics & AI developments, and an architecture to automate support for the development, industrialization, and operation of analytical models.

Solution

- AI Governance Maturity assessment
- Established a Corporate Governance Model to manage all AI models:
  - Strategy Model
  - Organization Model (Role's definition)
  - Operations Model
- Developed a reference architecture to support the industrialization of AI models for different cloud providers
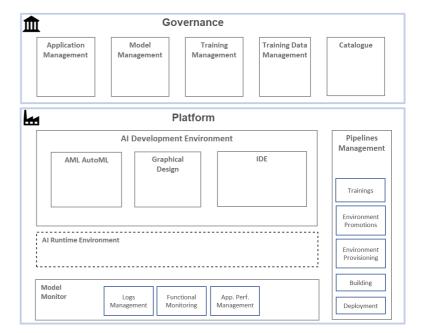
Outcome

- Receive higher degrees of freedom in the analysis.
- Obtain higher transparency about markets, new business model options defined.
- Better service usage and process metrics can be evaluated ad-hoc in QlikView dashboards and used for management presentations.
- Avoid redundant databases by transferring data sources into a central, cloud-based data lake.
- Leverage synergies across departments.

TECHNICAL SPECIFICATIONS

The solution carried out by NTT DATA included the following actions:

1. AI Governance Maturity Assessment: A comprehensive assessment conducted via various workshops to systematically evaluate the client's capacities and processes related to AI governance.

2. Established a Corporate Governance Model to manage all AI models:

- Strategy Model:
  - o Define the overarching goals and objectives of the AI governance strategy.
  - o Specify how AI aligns with overall business strategy.

- Organization Model (Role's definition):
  - o Clearly define roles and responsibilities related to AI governance.
  - o Identify key stakeholders, including a dedicated AI governance team, and implement a reporting system.

- Operations Model:
  - o Outline the day-to-day processes for AI model development, deployment, and monitoring.
  - o Specify protocols for data management, model validation, and compliance following the ML cycle.

3. Developed a reference architecture to support the industrialization of AI models for different cloud providers

4. Developed a strategic roadmap outlining key materials to facilitate the client's change management process.

5. Provided comprehensive documentation and training materials for users and stakeholders (user manuals, step-by-step guides for implementing and maintaining AI governance