

Leading Upstream's digital transformation with Gen-AI

Discover how an oil & gas company integrated AI to modernize asset management and reshape decision-making in well construction.

Problem

Well construction required complex real-time decisions that relied on the expertise of personnel to process lots of data and reference events, which took hours, affecting the efficiency of the process.

Objective

Implement AI to reduce the processing time of structured and unstructured data on wells and benchmark events to seconds and make this information accessible across several channels.

Challenges

Build an AI platform that can interpret and process information sources without errors and delays, enabling informed, documented, and agile decision-making to improve quality and accuracy.

Solution

The solution first consisted of **building a DataLake to ensure both the access and quality of data from a variety of sources**, including real-time transactional operations, planning, manual logs, and costs.

Then, **Globant Enterprise AI** was implemented to create a **Drilling Assistant that, through multiple accesses to LLMs, would analyze this unstructured data**. The assistant would also generate **instant reports from natural language queries** that include references to their sources.

Developing this AI solution with Globant Enterprise AI ensured:

- Significantly **accelerate** implementation times
- **Data security and privacy** in handling and processing.
- **Enhanced efficiency and accuracy** in processing complex relationships and patterns to extract valuable insights.

Results

The client was able to **improve the quality and accuracy of their operations by significantly reducing data processing times**.

Thanks to **Globant Enterprise AI's capabilities** to quickly analyze unstructured data with high accuracy, well construction technicians can now **chat with data and generate instant reports to make and document informed decisions** in a more agile way.

The implementation of Globant Enterprise AI and the DataLake was key to generating substantial value by **avoiding costly errors and unnecessary delays**.

