

TRANSFORMING KNOWLEDGE INTENSIVE PROCESSES IN E&P WITH AI

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ABSTRACT

Nowadays the Oil & Gas industry is facing a data flooding problem. Each step in the E&P value chain creates terabytes of information, but the extraction of meaningful knowledge and insights to support decision-making processes is still a challenge. In this work, we present a workflow based on artificial intelligence (AI) tools that help to combine different sources of knowledge, therefore enabling better analytics tools to ground decisions. This workflow integrates machine learning models, like computer vision and data-driven learning processes, with formal knowledge, like ontologies, rules and facts structured in a knowledge graph. We also capture former expert's interactions thus enabling an active/continuous-learning environment.



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