OIL & GAS COMPANY

CLIENT PROBLEM

A leading infrastructure inspection platform faced challenges scaling their machine learning operations for defect detection across oil platforms. They required exceptional accuracy in AI predictions as errors could lead to catastrophic failures, environmental damage, and significant remediation costs. Their growth ambitions were hampered by inefficient data processing capabilities.

WHAT WE DID

CloudFactory delivered a comprehensive AI operations solution by building training datasets, then transitioning to high-accuracy inference error handling as models matured. We provided strategic advisory to optimize their data pipeline and ML strategy and identify opportunities for significant improvements. Additionally, we expanded support to include specialized technical visualizations work.

RESULTS + VALUE

Our partnership enabled the client to successfully improve the models and processes across 35 global oil platforms with plans to expand to 200 platforms in the next two years.

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KEY TECHNIQUES

01 **High-Stakes Error Prevention:** Our rigorous quality assurance protocols ensured exceptional accuracy in defect and corrosion detection across oil platforms, preventing catastrophic failures and environmental damage in high-risk environments.

02 **Evolutionary Partnership Approach:** We transitioned from building basic training datasets to providing sophisticated inference oversight and strategic AI consulting as the client's inspection platform matured and scaled.

03 **Technical Drawing Integration:** Our specialized support for isometric and technical drawings enhanced the comprehensive inspection capabilities, creating a more complete digital representation of critical oil platform infrastructure..

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