



Predicting ESP Failures for a Leading Oil & Gas Company



- Evaluate SAP's platform and advanced data processing capabilities with customer ESP (Electric Submersible Pumps) data to prove if one could detect pre-emptive notifications of failures
- Technical expertise in analyzing customer's ESP data



 Integrating operational ESP data with other company data to predict rate of pump failure. SAP, Incture and the client worked together to analyze operational ESP dimensions such as vibration, temperature, frequency and operating voltage, start/stop and operational tolerance error data to understand the factors that contribute to pump failure. We provided analytical reports on observed relationships and co-relations



• Predicting ESP failures will help customer increase production while reducing operating costs, give customer unmatched equipment reliability insight, assist customer in negotiating better warranty and service contracts, provide customer a financial edge over peers.



1MN USD

Projected Annual Benefit

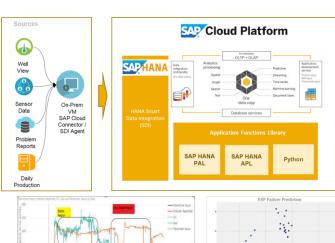
85%

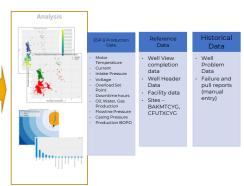
Prediction of ESP failure

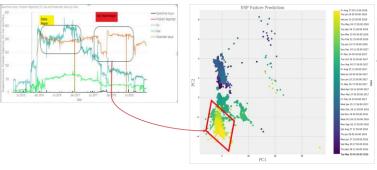




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Our ML algorithm was able to identify data patterns that enables it to predict **85%** of the ESP failures with limited data set available