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For Immediate Release



Small But Mighty - Brisbane's SIG Machine Learning Unveils AI-Powered Control System for the Energy Sector

Brisbane, Queensland

Brisbane technology company, SIG Machine Learning (SIG ML) has recently achieved a pioneering feat: the integration of artificial intelligence (AI) into the control systems for oil and gas fields, enabling autonomous configuration and optimisation of well networks.

SmartLift, SIG ML's innovative machine learning control system, is a game-changer for the energy sector. The smart application sits within SIG ML's proprietary NEXGINEER platform that encompasses smart control and analytics software applications to solve specific industry challenges. SmartLift is an advanced control solution that seamlessly manages multiple wellsites as a unified network, promoting safer, more economical, and environmentally responsible operations.

Teaming up with [Kelvin.ai](#), renowned for its advanced control systems, they've set a new industry standard in AI-based control solutions.

Challenge Addressed

The energy sector, especially oil and gas companies, grapple with mounting pressures to amplify sustainability and operational efficiency. Traditional control systems, while foundational, are tedious to optimise at scale and offer limited functionalities. This often culminates in efficiency losses, misaligned production strategies, unexpected costs, and escalated carbon emissions.

The SmartLift Advantage

SmartLift was conceived by petroleum engineers who identified disconnects between existing control systems and the optimisation tasks performed by production engineers. Engaging closely with Queensland gas producers, they crafted a state-of-the-art solution to bridge these gaps.

SmartLift stands apart by:

- Slashing optimisation time by 95%*, liberating operators to focus on value-added tasks.
- Boosting asset performance via interconnected, multivariable control, thus optimising production while curbing emissions and costs.

*Note: this is in comparison with the monitoring and configuration of traditional PID Control methods.

A New Control Paradigm

SmartLift integrates domain expertise with machine learning to convert complex asset data into actionable intelligence. This provides controllers with the detailed insights needed to optimise the settings (e.g. setpoints) on a network of wellsites.

Sam, CEO at SIG Machine Learning, shares his insights:

"Our journey was driven by a vision: to revolutionise well field control, enabling faster and more efficient optimisation. By merging engineering expertise with data-driven models, we've crafted a dynamic system that can predict and optimise in real-time, aligning with the practical constraints of a well field.

We're thrilled to be playing a part in the transition to more autonomous operations in the energy sector. The drive for more efficient and sustainable ways of operating these industrial assets has never been greater, and we're committed to helping organisations extract more value from the vast amounts of data they collect, by translating data into actionable insights and closed-loop automations, coming from industry ourselves to ensure our engineering peers in the industry have the best toolbox available." said Sam.

Today, SmartLift stands unparalleled as the sole AI control system actively managing numerous wellsites in Queensland, designed with the innate ability to self-adjust and evolve with every day it operates.

"As the energy sector pivots to embrace more autonomous operations, we're helping to pinpoint the key challenges. Building on AI-driven control, we're now delving into predictive analytics to ensure efficient maintenance, intervention and allocation in industrial assets," remarked Sam.

For oil and gas companies, SmartLift offers a transformative approach to wellsite optimisation and control, perfectly aligning with today's emphasis on efficiency and sustainability.

SIG Machine Learning (SIG ML) is an Australian tech firm transforming how businesses leverage big data for the streamlined control and optimisation of their operations. Merging deep engineering expertise with cutting-edge machine learning, SIG ML offers the NEXGINEER platform of **smart** control and analytics software. Each application is designed to equip engineers with solutions spanning asset maintenance, optimisation, management, and control. **These tools** not only facilitate data-driven decision-making but also enhance the predictability, efficiency, and sustainability of asset operations.

Backed by industry experience and domain knowledge, our mission is simple: deliver next-generation engineering technology, today.

To embrace the future of autonomous operations and enhance asset performance with machine learning, connect with our team at SIG ML.

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