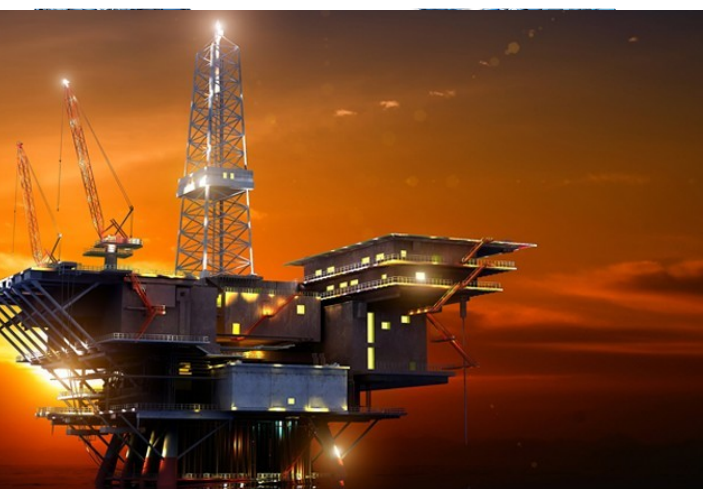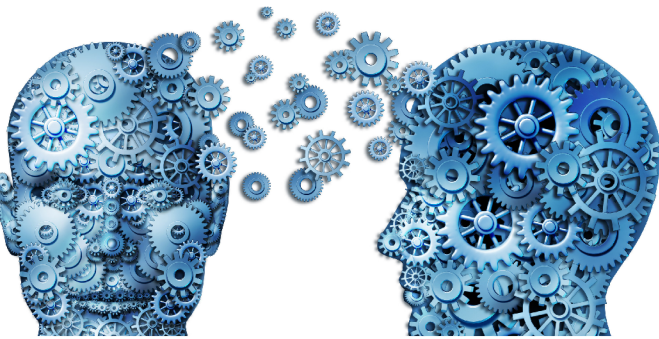# PIPE
PRE-EMPTIVE INCIDENT PREDICTOR ENGINE

The PIPE, aims at building a Predictive Monitoring Mechanism for Oil & Gas - HSE Division by collating inputs from various sources such as Operations Data, Sensors, Audit and Environment data using latest BIG DATA Techniques and further applying Machine Learning to predict the incidents in advance.

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MACHINE LEARNING

Machine learning is a type of artificial intelligence (AI) that provides computers with the ability to learn without being explicitly programmed.

In the field of machine learning there are two leading ways of learning, namely Supervised learning and Unsupervised learning. In supervised learning you define explicitly what features you want to use, and what output you expect. In contrast to supervised, with unsupervised learning you do not exactly know the output on beforehand. The idea when applying unsupervised learning is to find hidden underlying structure in a data-set.

BIG DATA & ANALYTICS

Big data analytics is the process of examining large data sets containing a variety of data types , to uncover hidden patterns, unknown correlations, market trends, customer preferences and other useful business information.

"Centre of Excellence" to Achieve ZERO INCIDENT Safety in HSE - Oil & Gas

FEATURES & BENEFITS

Early warning signals & alert system
Real time streaming and analytics
BIG DATA platform
Machine learning algorithms

Increase in Operational efficiency
Reduction in downtime
Environmental and Human Safety