Smart Oil Fields
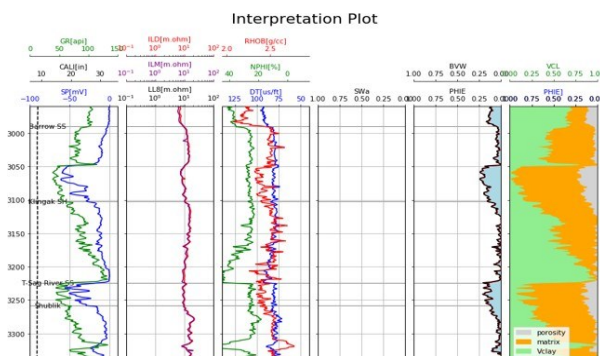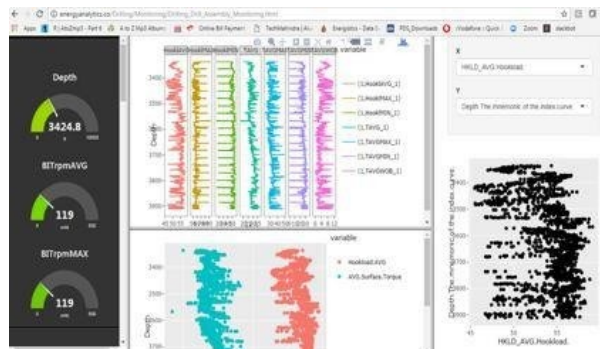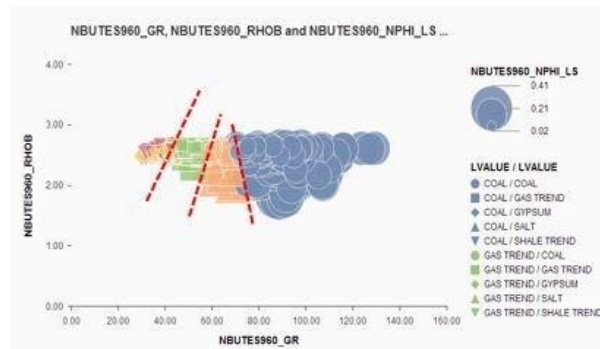
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smart n sustainable solutions

KEY ENGAGEMENTS

- *Upstream Data Analytics -* Solution built for an Oil Field Service Provider for facies classification

- *Monitoring Well Integrity -* Solution built for an E&P major in Middle East to predict well integrity incidents

- *Integrated Oil Fields -* Solution built for an E&P Operator as part of an accelerator program for integrated NPT analytics

- *Pipeline Incidents Analyzer -* Solution designed and developed at one of the largest LNG importers in India

- *Refinery Incidents Analyzer -* Solution delivered as an AI driven SaaS mode based on refinery *accident* models

Greenojo Consulting Private Limited
India | US | Canada | UAE | Nigeria

https://greenojo.com/solutions

sales@greenojo.com

Recognized as a Startup under DIPP, India, Member of SAP Startup Focus Program, IBM Global Entrepreneur Program, NASSCOM 10,000 Startups

Upstream Data Analyzer (UDA)

Solution certified in SAP HANA which helps in instant visualization as well as predictive analysis of logs from Oil & Gas upstream operations.

- Uses prediction models for sub-surface characteristics, drilling plans, production, etc.
- Supports application of AI/ML algorithms for NPT reduction strategies
- A/I and ML combined with real time data can avoid drilling surprises/incidents based module of lithology prediction

Drilling Operations Network (DrillNet)

Solution addresses the need for real-time dashboards for drilling consoles for mud, pump, drill assembly, well integrity and pit/tank monitoring.

- Combined data-to-insights process managing WITS (level 0 – ASCII), WITSML and LAS sources
- Allows real-time, micro-batch as well batch wise visualization as well as analytics – from a time + depth perspective
- Manages multiple monitoring dashboards - visibility to drilling parameters, such as mud properties, pump and casing pressure, tank volumes, etc.

E&P Data Manager (EDM)

Solution significantly reduces the TAT (Turn Around Time) for E&P data transformations jobs and enable Process Automation in E&P data management domain.

- Adapters built in for SEGY, LAS, WITS, WITSML, PRODML, RESQML, etc.
- Automation Scripts for Routine tasks like Splicing, Merging, Data Transformation
- E&P Logs Visualization extensions for Enterprise Reporting Tools
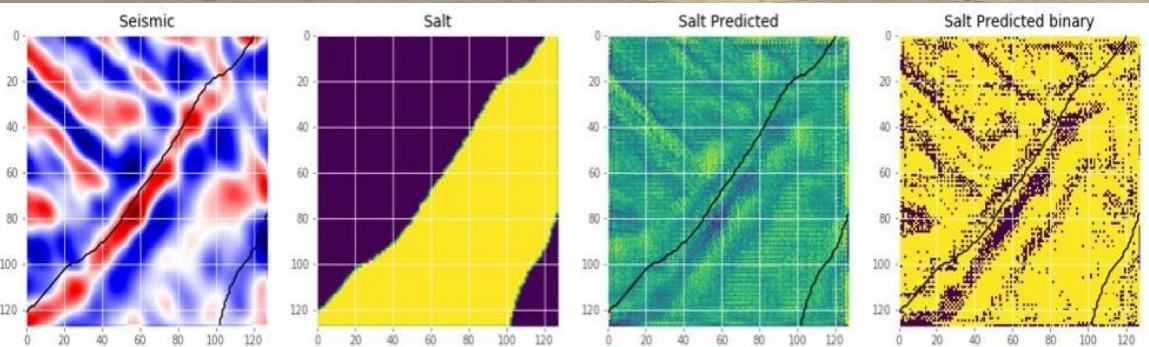
Smart Oil Fields

BUSINESS IMPACT

- Improves operational performance by comparing patterns across sites

- Enhances local reporting and decision making

- Enhances real-time analytics at the site level

- Provides a unified view of data from multiple sources – structured, semi-structured and unstructured

- Improves asset monitoring by analysis of incidents

- Monitors and predicts asset integrity across the energy value chain

DESIGN THINKING

- ✓ Our Design Thinking led solution development approach is aligned with our core "customer engagement strategy" defined by - *Agility (in Delivery), Speed (in Operations) and Innovation (in Solutions)*

- ✓ Our Digital Consulting Strategy looks at 3 broad factors that contribute to CxO Dashboards *Assets/Utilization, Workforce/Productivity and Customers/Revenue Growth*

- ✓ Factory Model Development - *5P Model (an adapted agile scrum framework) acting as a DNA in the solution development life cycle*
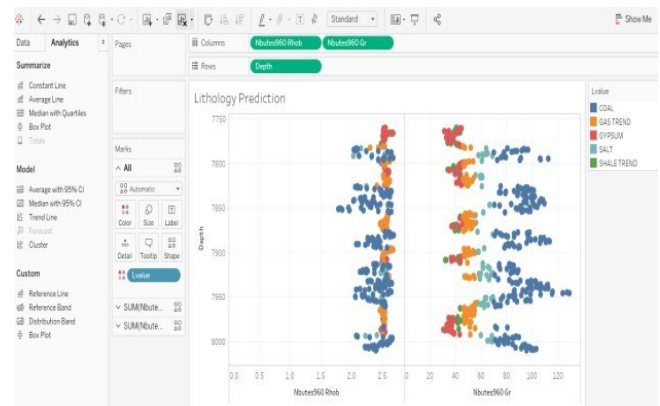
Engagement Model

- On demand services partner - OPEX mode of technology transformation

- Lower TCO by adopting Public Cloud, Open Source, Rapid Application Development (RAD)

- Act as customer's extended technical R&D labs

- Partnership with SAP, IBM, Microsoft, Google & AWS

Oil & Gas Solution Accelerators

- Deep Learning for Prediction on Seismic Datasets

- Oil and Gas Production Analysis

- Asset Performance/Failure Analysis

- Pipeline Incidents Data Modelling

- Information Management for Capital Projects

- Oil Spill Incident Analysis

- Dynamic Retail Pricing

- Real-time Operational Dashboards

- Blockchain enabled Crude Oil Trading

- Blockchain enabled Capital Project Management

- Algorithm Trading Analytics for Crude Oil

As part of a strategic collaboration, we have formed a technology consortium to provide Industry 4.0+ solutions in the areas of Automation, Analytics & AI to Oil & Gas customers in global markets.