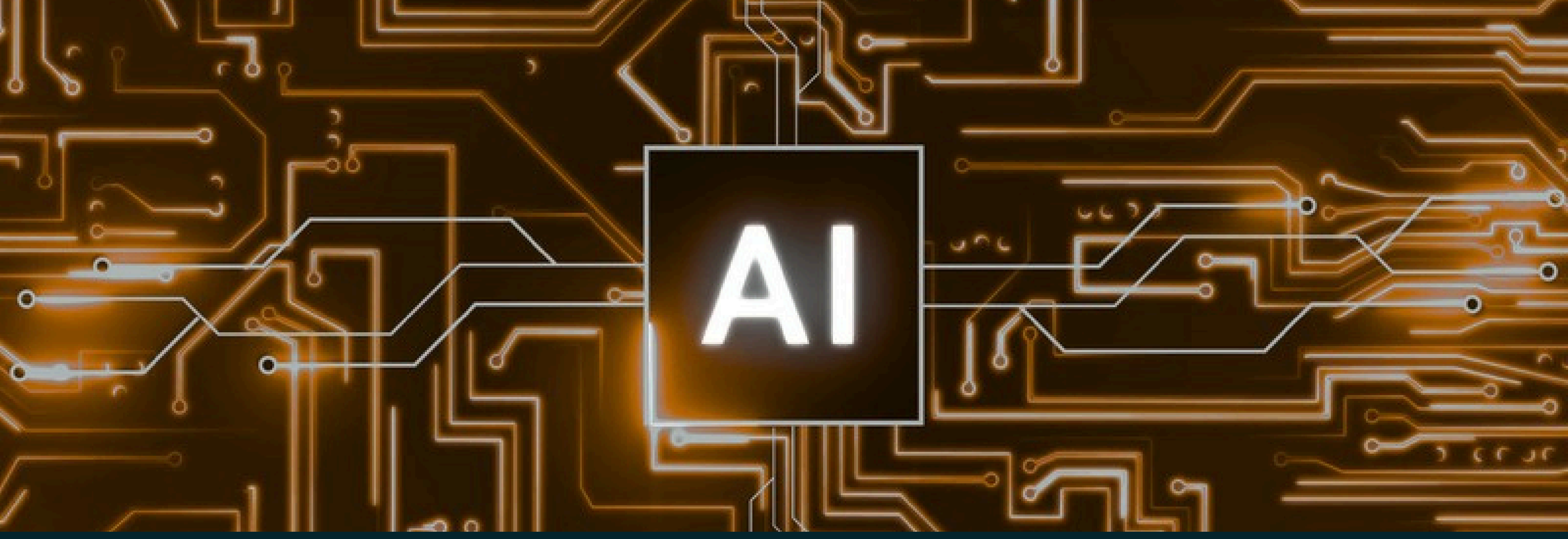

Custom Solutions

INDUSTRIAL AUTONOMY

WITH AI & ML

SMHcoders

Let's Digitalize Your Business..

Oil & Gas Solutions Portfolio

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SMHcoders
Let's Digitalize Your Business..

About SMHcoders

SMHcoders is a UAE-based software solutions company specializing in Artificial Intelligence (AI) and Machine Learning (ML), serving diverse industrial segments. With expertise in predictive analytics, computer vision, chatbot development and AI/ML integrations, we help industries achieve smarter decisions, optimized operations and sustainable growth.

Challenges in the Oil & Gas Industry

- High operational costs due to aging infrastructure and asset failures
- Unplanned downtime of critical equipment leading to production losses
- Workforce safety risks in hazardous environments (offshore, refineries, pipelines)
- Data silos across exploration, drilling, refining, and distribution
- Environmental compliance with stricter emission and ESG standards

SMHcoders
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Oil & Gas Industries

Services

01 AIChatbot Development

02 Natural Language Processing

03 Predictive Modelling

04 Computer Vision

05 AI Development Services

06 Web Development

07 Mobile App Development

08 Chat GPT Integrations

Solutions

- Autonomous Process Control System for Oil and Gas Plants
- AI-Driven Time Series Forecasting and Alarm System
- Annulus Pressure Monitoring and Leak Detection System
- Intelligent Gas Lift Optimization Platform
- Gas Lift Compressor Efficiency Optimization
- AI-Driven Virtual Flow Meter (VFM) and Soft Sensing System
- Advanced Process Control (APC) and AI-Based Controllers
- State-Based Event Management and Auto-Execution Engine
- Integrated Prioritization and Autonomous Maintenance Scheduling
- AI-Based Production Optimization from Well to Field
- Automated P&ID Generation Tool
- AI-Powered Predictive Maintenance and Anomaly Detection

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Key Benefits

- Improves stability and yield
- Reduces interventions
- Lowers energy use and variability

- Maximizes field recovery
- Reduces backpressure losses
- Extends reservoir life

- Anticipates risks
- Improves maintenance and tuning
- Reduces shutdowns and containment loss

- Automates procedures
- Eliminates errors
- Ensures safe, repeatable operations

- Ensures well integrity and safety
- Prevents environmental harm
- Supports compliance

- Maximizes recovery
- Minimizes gas and energy use
- Improves field production balance

- Cuts maintenance backlog
- Boosts asset uptime
- Enables predictive maintenance

- Enables unmanned operations
- Cuts costs and errors
- Maximizes output with less energy

- Cuts CAPEX/OPEX
- Enables real-time monitoring
- Improves field optimization

- Maximizes overall field recovery
- Minimizes backpressure losses
- Extends reservoir life

- Speeds up engineering workflows
- Reduces human error in design
- Enhances digital twin integration

- Prevents costly equipment failures
- Extends asset life
- Improves safety and reliability