



AI

Custom Solutions

# INDUSTRIAL AUTONOMY

*WITH AI & ML*



**SMHcoders**

*Let's Digitalize Your Business..*

**Oil & Gas  
Solutions Portfolio**



# 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

# Oil & Gas Industries

## Services

- 01 AI Chatbot 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



**Advanced Process Control (APC) and AI-Based Controllers**



**Autonomous Process Control System for Oil and Gas Plants**



**AI-Driven Time Series Forecasting and Alarm System**



**State-Based Event Management and Auto-Execution Engine**



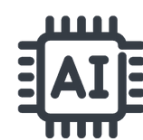
**Annulus Pressure Monitoring and Leak Detection System**



**AI-Driven Virtual Flow Meter (VFM) and Soft Sensing System**



**Integrated Prioritization and Autonomous Maintenance Scheduling**



**AI-Based Production Optimization from Well to Field**



**AI-Driven Virtual Flow Meter (VFM) and Soft Sensing System**



**AI-Based Production Optimization from Well to Field**



**Automated P&ID Generation Tool**



**AI-Powered Predictive Maintenance and Anomaly Detection**



# Key Benefits

