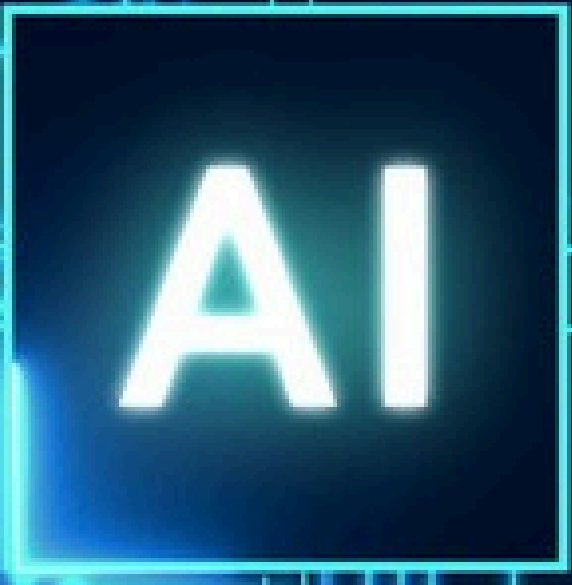




AI

Custom Solutions

INDUSTRIAL AUTONOMY

WITH AI & ML



SMHcoders

Let's Digitalize Your Business..

**Water Industries
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 Water Industry

Water utilities and treatment plants face pressing challenges, including:

- Aging infrastructure leading to leakage and inefficiency
- High energy consumption in treatment and pumping operations
- Water scarcity and demand growth, requiring optimized resource management
- Unplanned downtime of critical assets like pumps, motors, and filtration units
- Regulatory compliance and increasing ESG reporting requirements
- Workforce safety in hazardous environment

Water 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

- | | | |
|--|---|---|
| 
AI-powered Flood Prediction and Response System to abnormal conditions | 
Autonomous Drought Management and Water Allocation System | 
Smart Coastal Infrastructure Management |
| 
Autonomous Precision Irrigation Management System | 
Intelligent Erosion Monitoring and Prevention System | 
AI-driven Circular Wastewater Resource Recovery System |
| 
Autonomous Predictive Maintenance of Water Networks | 
AI-powered Water Quality Monitoring and Control System | 
Customer Engagement and Real-time Consumption Management Platform |
| 
Autonomous Integrated Stormwater Management System | 
AI-driven Autonomous Groundwater Recharge Management | 
Smart Digital Twin for Autonomous Water Infrastructure Management |

Key Benefits



- Less flood damage
- Stronger community resilience
- Better emergency resource use



- Stable agricultural production
- Lower drought impacts
- Fair water distribution



- Stronger coastal resilience
- Lower reactive maintenance costs
- Smarter infrastructure investments



- Higher yields with less water
- Lower water use
- Sustainable farming practices



- Less farmland erosion
- Better productivity and soil health
- Cost-effective erosion control



- Less resource waste
- Lower costs via recovery
- Supports circular economy



- More reliable water infrastructure
- Lower operational and repair costs
- Optimized resource allocation and maintenance



- Better public health
- Lower compliance risks
- Greater customer trust



- Higher customer satisfaction
- Lower water use
- Stronger utility-customer relationships



- Stronger urban weather resilience
- Less flood damage
- Better water reuse and conservation



- Sustainable groundwater use
- Prevents depletion and subsidence
- Improves long-term reliability



- Greater infrastructure resilience
- Higher efficiency, lower costs
- Better investment decisions