



AI

Custom Solutions

# INDUSTRIAL AUTONOMY

*WITH AI & ML*



**SMHcoders**

*Let's Digitalize Your Business..*

**Mining 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 Mining Industry

Equipment downtime and high maintenance costs for haul trucks, conveyors, drills

- Safety challenges in underground and remote operations
- Environmental impact (dust, water use, emissions) under ESG scrutiny
- High energy consumption in ore processing and ventilation
- Complex operations with scattered data from multiple sites

# Mining Industries

## Services

01

**AIChatbot Development**

02

**Natural Language Processing**

03

**Predictive Modelling**

04

**Computer Vision**

05

**AI Development Services**

06

**Web Development**

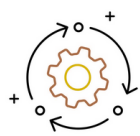
07

**Mobile App Development**

08

**Chat GPT Integrations**

## Solutions



**IoT-Enabled Predictive Maintenance for Mining Equipment**



**Autonomous Conveyor Monitoring and Control System**



**Ventilation on Demand (VoD) Using IoT Sensors**



**Environmental Monitoring and Compliance Automation**



**Worker Safety and Real-Time Location Tracking**



**AI-Optimized Fleet Management System**



**Energy Optimization for Pumps, Compressors, and Mills**



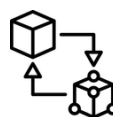
**Slope and Ground Stability Monitoring**



**Smart Inventory and Spare Parts Management**



**Automated Dust and Air Quality Control**



**Digital Twin for Mine-Wide Operational Planning**



**Circular Water Management System**

## Key Benefits

