



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

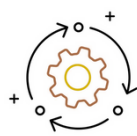
07

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



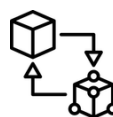
Slope and Ground Stability Monitoring



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

