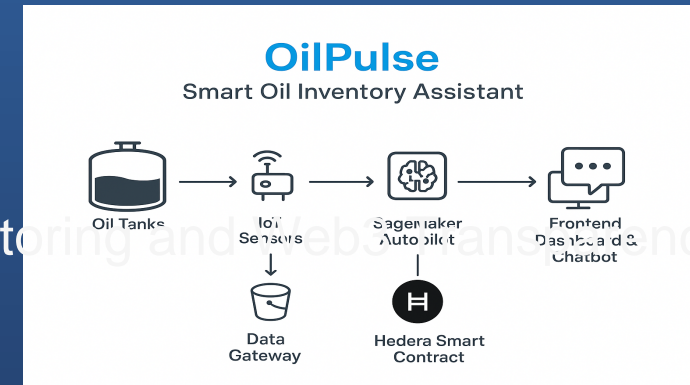


# OilPulse

Revolutionizing Oil Management with Smart Monitoring and Analytics.

Built with: Hedera | AWS | IoT | DePIN | AI



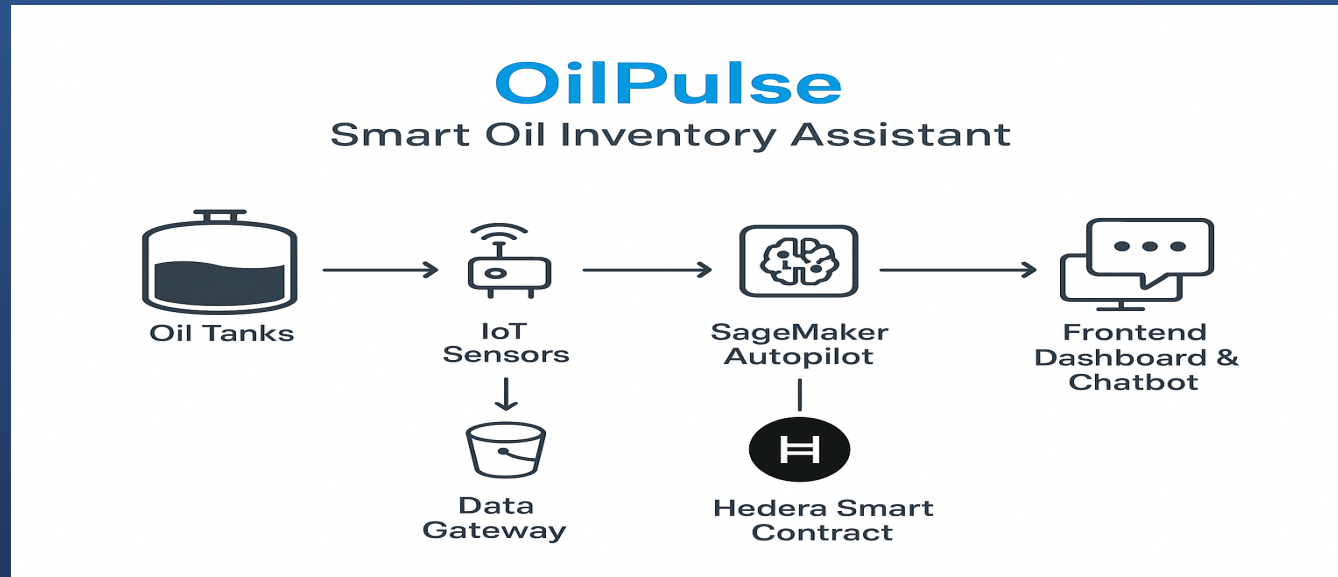
# Problem Statement

Oil distributors, gas stations, and energy retailers often lose money due to poor inventory management — from expired stockpiles to product degradation. Manual tracking is error-prone, inefficient, and lacks real-time visibility across supply chains.

# Solution – OilPulse

- Smart Oil Inventory Assistant leveraging AI, IoT, DePIN, and Hedera Hashgraph.
- Automates oil monitoring, forecasting, and restocking.
- IoT sensors monitor oil tank levels in real time.
- Hedera smart contracts ensure data integrity and transparency.
- AI forecasts optimal restock times and provides insights via chatbot.

# System Architecture Diagram



# Technology Stack

- IoT Sensors – Oil level detection
- Embedded Systems – Data transmission
- AWS S3 + SageMaker – Storage & AI forecasting
- Hedera Smart Contracts – Immutable recordkeeping
- Amazon Bedrock – Natural language insights
- Frontend (Web + Chatbot) – User interaction

# Use of Hedera Technologies

- Smart Contracts for data verification and transparency.
- DePIN for decentralized delivery validation.
- Hedera Hashgraph ensures fast, secure, and low-cost transactions.
- Integration with AI creates predictive Web3 management.

# Impact & Benefits

- Reduces oil wastage
- Prevents fraud and data tampering
- Increases operational efficiency
- Improves decision-making with AI forecasts
- Builds trust through blockchain transparency

# Market Opportunity

Target: Oil companies, fuel stations, and refineries.

Market Gap: Lack of connected and transparent inventory systems.

Scalability: Expandable to water, gas, or chemical inventory systems.



# Business Model

- SaaS subscription-based model
- Tiered pricing for different operation scales
- Optional enterprise dashboard and API access

# Conclusion / Call to Action

Smart Oil Inventory Assistant — Securing every drop through innovation.

Join us in transforming energy management with AI and Web3 transparency.

Contact: OilPulse Team | Built with Hedera, AWS, and IoT