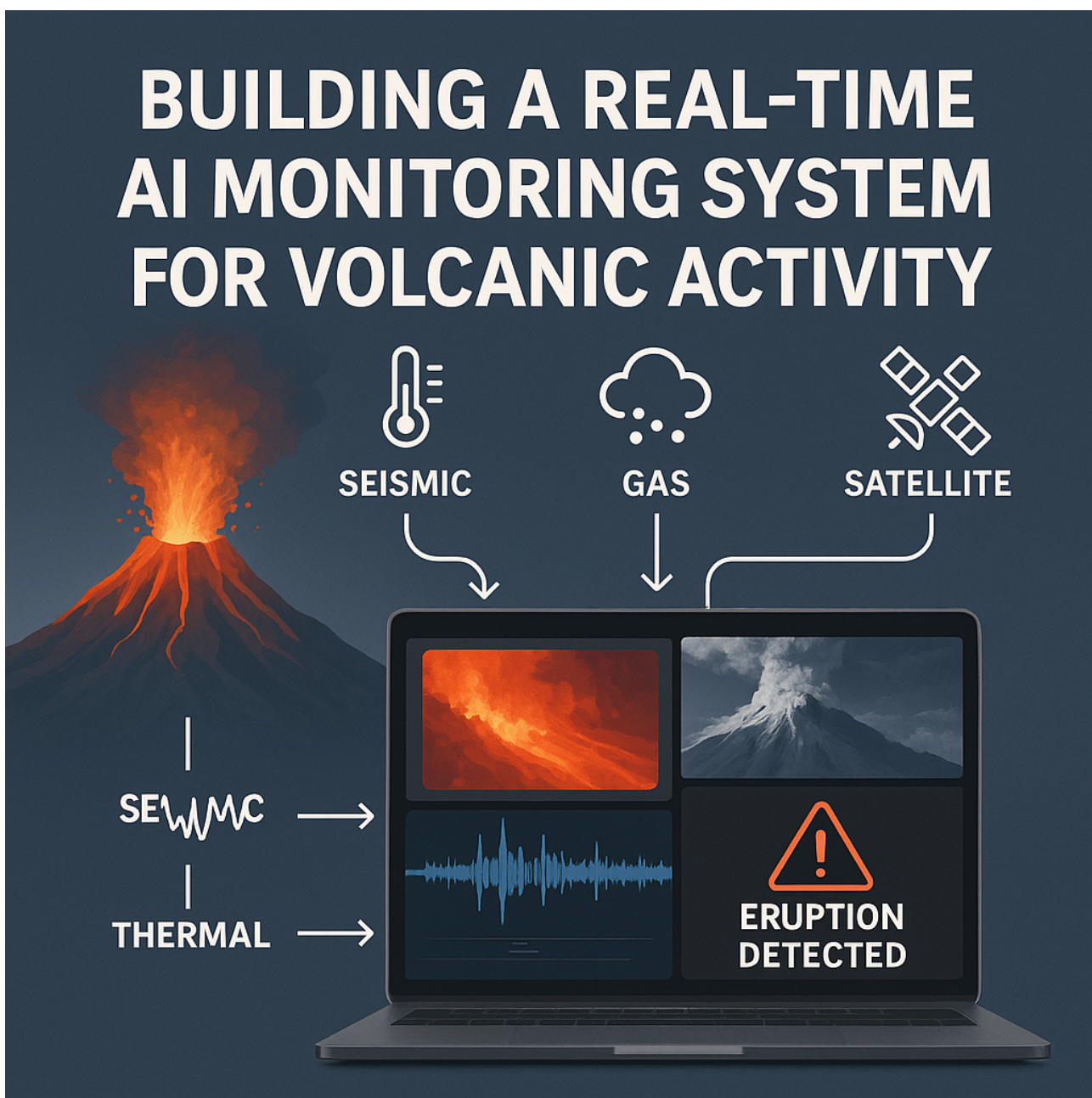


AI-Powered Volcano Eruption Detection System

An Early Warning Platform by Keweenaw Nanoscience Center

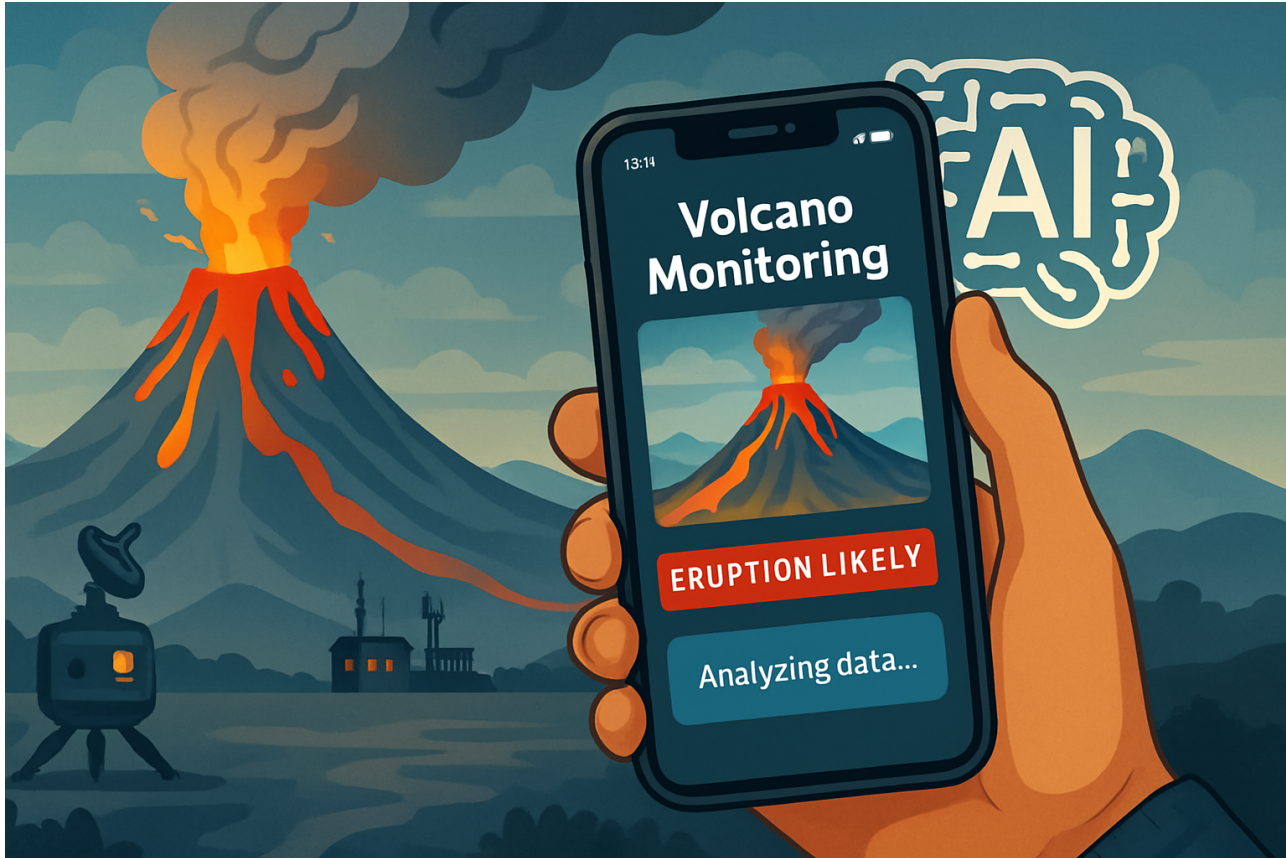
Project Overview

Volcanic eruptions pose serious risks to millions worldwide. Current early warning systems are fragmented, costly, or unavailable in high-risk zones. Our platform uses artificial intelligence to provide a next-generation, real-time monitoring system-combining satellite, thermal, seismic, and gas emission data.



How It Works

- Satellite Imaging: Monitors thermal signatures
- Gas Sensors: Detect anomalies in emissions
- Seismic Activity: Classifies waveform patterns with AI
- Fusion AI Model: Predicts eruption risk and sends alerts



Use Cases

- Emergency management agencies
- Governments in volcanic zones
- Humanitarian and disaster relief NGOs
- Scientific researchers and Earth observation partners

Current Status

- Concept development complete
- Project webpage live
- Public outreach initiated
- Seeking collaborators, pilot sites, and funding partners

Get Involved

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Scan the QR code to visit the project page:

