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(57) Abstract :  
 Utilizing machine learning algorithms and real-time data ingestion, this cloud-based system can identify environmental dangers like chemical spills, wildfires, gas leaks, and air pollution. The system employs trained models for anomaly detection, uses scalable cloud infrastructure to process heterogeneous sensor inputs, and produces automated warnings for emergency reaction. The system is well-suited for implementation in industrial, urban, and rural settings since it facilitates multi-source data fusion, adaptive model training, and geospatial analysis.

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