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(57) Abstract :
The invention discloses an IoT-based framework (100) for real-time environmental weather monitoring comprising distributed sensor nodes (101), wireless communication modules (102), cloud computing and storage (103), analytics engine (104), renewable energy modules (106), and user interfaces (105). The system captures multiple weather parameters, processes them in real time, and provides predictive alerts, ensuring localized and reliable environmental monitoring for agriculture, disaster management, and public use. The modular design ensures cost-effectiveness, scalability, and adaptability across diverse regions.

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