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(57) Abstract :

The invention discloses an AI-enabled system (100) for automated weather alert generation that integrates real-time data acquisition (110), AI prediction engine (120), and alert generator (130). The system classifies weather hazards, formats alerts, and disseminates warnings through a dissemination module (200), including SMS, mobile notifications, IoT sirens, and community interfaces. A feedback loop (150) enables adaptive learning, improving accuracy over time. The system provides timely, location-specific alerts to enhance disaster preparedness, minimize risk, and safeguard lives and property against hazardous weather events.

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