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(57) Abstract :
 This invention relates to an AI-based model designed for the integration of heterogeneous pollution data from multiple sources, enabling accurate and real-time monitoring of environmental pollution levels. The model leverages machine learning techniques to process and integrate data from various sources, including satellite sensors, ground-based sensor networks, weather stations, and social media. By extracting common features such as pollutant concentration, weather conditions, geospatial information, and temporal trends, the model can provide precise pollution level predictions. The AI model is optimized for integration into mobile devices, allowing for portable, real-time assessment and decision-making regarding pollution levels. This innovation addresses the critical challenge of managing heterogeneous pollution data, offering a low-cost, scalable, and portable solution for comprehensive environmental monitoring. Accompanied Drawing [FIGS. 1-2]

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