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(57) Abstract :
The invention discloses a computer-based framework for real-time disease outbreak prediction comprising a data ingestion module (101), preprocessing unit (102), predictive modeling engine (103), visualization dashboard (104), alert generation system (105), and cloud storage/database unit (106). The system integrates heterogeneous data sources, applies advanced machine learning algorithms, and provides predictive insights through interactive dashboards and automated alerts. By enabling timely detection, accurate forecasting, and rapid interventions, the invention supports effective public health preparedness and minimizes the impact of infectious disease outbreaks.

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