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(57) Abstract :

The present invention discloses a computer-based model (101) for smart criminal activity prediction, integrating multiple functional modules including a data acquisition unit (102), machine learning engine (103), alert generation module (104), communication interface (105), adaptive response system (106), and cloud-supported analytics platform (107). The model analyzes historical and real-time data to generate predictive insights, enabling proactive crime prevention. Explainable AI ensures transparency, while adaptive learning continuously improves system accuracy. The invention provides a scalable, intelligent, and ethical solution for law enforcement to address evolving criminal threats.

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