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(57) Abstract :

The invention discloses an AI-enabled framework for detecting online cyberbullying activities, comprising input module (101), preprocessing unit (102), NLP engine (103), sentiment analyzer (104), pattern recognition unit (105), adaptive learning system (106), decision module (107), and alert/response mechanism (108). The system processes multimodal inputs, applies contextual and sentiment analysis, and dynamically adapts to evolving abusive patterns. It ensures real-time monitoring, reduced false positives/negatives, and privacy compliance, thereby providing an effective, scalable, and ethical solution for safeguarding digital communication environments.

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