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(57) Abstract :
The invention discloses an AI-enabled platform (100) for automated network botnet detection, integrating a traffic collector (101), preprocessing unit (102), anomaly detection engine (103), graph modelling unit (104), deep learning classifier (105), alert module (106), and mitigation unit (107). The system analyses large-scale traffic in real-time, identifying malicious botnet communications with high accuracy and low false positives. A continuous learning module (108) retrains models using new threat data, ensuring adaptability against evolving attacks. The invention offers a scalable, automated, and resilient solution for enterprise and cloud cybersecurity environments.

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