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(57) Abstract :

The invention discloses an AI-powered model for detecting cybersecurity attack vectors, incorporating a data collection module (101), data preprocessing unit (102), AI engine (103), anomaly detection layer (104), explainable AI interpreter (105), and alert generation system (106). The model employs hybrid machine learning to detect known and unknown threats, ensuring high accuracy with minimal false positives. Continuous learning and explainable insights enhance adaptability and analyst trust. The invention provides a scalable, modular, and proactive defence framework against evolving cyber threats.

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