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(57) Abstract :

The invention discloses a cloud-enabled platform (100) for automated network traffic classification. The system comprises a traffic data collector (110), preprocessing engine (120), AI/ML classifier (200), cloud orchestration service (300), security intelligence module (400), and analytics dashboard (500). The platform leverages AI/ML for high-accuracy classification of encrypted and unencrypted traffic, elastic scaling via cloud-native deployment, and integrated real-time security intelligence. By providing actionable insights and automated scalability, the invention ensures robust, efficient, and secure network traffic management adaptable to modern infrastructures.

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