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(57) Abstract :
The AI-Driven Mobile Forensics system is a web-based forensic platform designed to automate the analysis of digital evidence obtained from mobile devices. With the increasing volume and complexity of mobile data involved in cybercrime investigations, manual analysis methods are time-consuming and inefficient. This system integrates Generative Artificial Intelligence to perform semantic, intent-based, and multimodal analysis of text and image data. Uploaded evidence is securely encrypted and analyzed to identify suspicious activities such as fraud, insider threats, and evidence tampering. The system automatically generates structured forensic reports while maintaining evidentiary integrity and chain of custody. The proposed solution significantly reduces analysis time and enhances accuracy, making it a valuable tool for modern digital forensic investigations.

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