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Intelligent Video Surveillance System for Bank

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Abstract: With the increasing sophistication of financial crimes and the growing demand for secure banking services, the implementation of advanced security measures has become imperative for banks worldwide. Facial recognition technology emerges as a promising solution to enhance security and streamline authorization verification processes. This paper explores the application of facial recognition technology in banks to determine the authorization status of individuals accessing accounts or conducting transactions.

The primary objective of this research is to investigate the efficacy of facial recognition systems in accurately identifying and verifying the identity of individuals in banking environments. By leveraging biometric data, such as facial features, these systems aim to authenticate users with a high level of accuracy and reliability. Moreover, the integration of facial recognition technology enables banks to combat various forms of fraud, including identity theft, account takeover, and unauthorized access.

This study will examine the technological aspects of facial recognition systems, including their underlying algorithms, data processing techniques, and integration capabilities with existing banking infrastructure. Additionally, it will analyze the security implications and privacy concerns associated with the deployment of facial recognition technology in banking operations.

Furthermore, the research will explore the practical implementation of facial recognition systems in real-world banking scenarios, evaluating their effectiveness in enhancing security, reducing fraud, and improving customer experience. It will assess the potential challenges and limitations faced during deployment, such as system accuracy, scalability, and regulatory compliance..

Keywords: Smartphone application, Early warning systems, speed breakers

