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Automated Attendance System Using Real Time Face Recognition

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Abstract: *The rapid advancement of facial recognition technology has revolutionized automated attendance systems, significantly enhancing the efficiency and accuracy of attendance tracking in classrooms and workplaces. This review paper examines various methodologies and technologies utilized in real-time face recognition attendance systems, emphasizing their advantages over traditional methods such as manual roll calls and fingerprint scans. We explore key literature in the field, highlighting innovations such as Eigenfaces, deep learning approaches, and multi-view recognition techniques, which have improved recognition rates and reduced processing times. Additionally, we discuss the integration of these technologies into user-friendly systems that ensure reliable attendance logging while addressing potential privacy concerns. By proposing a systematic framework for developing a robust attendance management system, this paper aims to guide future research and implementation efforts, ultimately fostering a shift towards more efficient, automated solutions in attendance management. Through this analysis, we underline the importance of continued innovation in facial recognition technology and its applications in diverse settings.*

Keywords: Automated attendance system, face recognition, biometric identification, deep learning, image processing, real-time tracking, security, efficiency

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