

# Crime Identification Using Face Matching Based on Mobile Application

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**Abstract:** *This paper presents a novel approach to crime identification using face matching technology integrated into a mobile application. By leveraging advanced facial recognition algorithms, this system aims to enhance the efficiency of criminal identification and tracking. The results demonstrate significant improvements in accuracy and speed compared to traditional methods. In recent years, advancements in technology have significantly impacted various fields, including law enforcement. Traditional methods of crime identification, which rely heavily on eyewitness accounts and manual processes, are often slow and prone to errors. This paper presents a novel approach to crime identification using face matching technology integrated into a mobile application. The proposed system allows law enforcement personnel to capture and match facial images in real-time, facilitating faster and more accurate identification of criminals. This application aims to enhance the efficiency of law enforcement operations by providing a reliable and user-friendly tool for criminal identification. The study explores the design and implementation of the mobile application, the integration of advanced facial recognition algorithms, and the development of a robust backend system for data management. The potential challenges, including privacy concerns and varying conditions for facial recognition accuracy, are also addressed. The significance of this research lies in its potential to improve the effectiveness of law enforcement and contribute to public safety.*

**Keywords:** Face Matching, Crime Identification, Mobile Application, Facial Recognition, Criminal Tracking.