

PROJECT TITLE

A PROJECT REPORT

submitted by

NAME

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**the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for
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of

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In

Computer Science & Engineering



***Muthoot
Institute of Technology & Science***

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DECLARATION

I hereby declare that this submission is my own work and that, to the best of my knowledge and belief, it contains no material previously written by another person nor material which has been accepted for the award of any other degree or diploma of the university or other institute of higher learning, except where due acknowledgment has been made in the text.

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CERTIFICATE

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ABSTRACT

This project introduces a novel approach to enhance security and user authentication in Automated Teller Machine (ATM) transactions by developing a robust model for real-time face visibility detection. The proposed system aims to identify instances where a person's face is covered or inadequately visible during ATM transactions, providing an additional layer of security and preventing potential unauthorized access.

The system leverages advanced computer vision techniques, utilizing deep learning algorithms to analyze live video feeds from ATM cameras. The model is trained on a diverse dataset to accurately recognize variations in facial visibility caused by factors such as clothing, accessories, and lighting conditions. By employing state-of-the-art image processing and facial recognition technologies, the system can promptly assess whether a user's face is covered or not, ensuring a reliable authentication process.

Upon detection of insufficient face visibility, the system triggers a notification mechanism, alerting relevant authorities or the account holder to the potential security threat. This proactive approach enhances user safety and mitigates the risk of fraudulent transactions or unauthorized access to ATM services.

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