

# Bank Locker Security System using Machine Learning

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**Abstract:** This project proposes a bank locker security system that employs machine learning techniques for face and liveness detection. The system uses a combination of computer vision and machine learning algorithms to identify the person accessing the locker and verify their identity. The system uses facial recognition technology to identify the user and then performs liveness detection to ensure that the user is physically present and not using a photograph or video. The proposed system provides enhanced security to the bank lockers by reducing the chances of unauthorized access. It is expected to be highly accurate and reliable, making it an ideal solution for banks and other financial institutions that need to ensure the safety of their customers' valuables. In face to face detection Convolutional Neural Networks(CNN) algorithm features plays important role .

**Keywords:** Face Recognition, Liveness Detection, Computer Vision, Privacy, User Verification, Authentication, Fraud Detection.