**Title of the Project :** Automated Vigilance System for Clash detection in Localized Environments using MobileNetV3

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**ABSTRACT**

The idea to automate vigilance system for physical clash detection using MobileNetV3, a light weight neural network architecture and computer vision techniques, for continuous monitoring in real time helps to provide safety and security to people. The main objective to design this system is to detect potential physical clashes among people in the surrounding and automate a voice call to the authority to notify that a physical clash event is going on. The system is trained on MobileNetV3 large model for which real time violence situations video dataset is used. The models detection of physical clashes is tested through various video inputs, for which it achieved 96% accuracy. In real time, the saved weights of the model is used through live camera feed, and a voice call alert is automated using Twilio API to the registered authority, by which significant steps at the earliest can be carried out to avoid further physical clashes. The system can be deployed using surveillance cameras. Thus, the proposed system serves as a significant step in the field of automated surveillance and can be considered as a valuable contribution for providing enhanced security. Overall, this paper demonstrates the potential of automated surveillance system and an efficient way in monitoring places for physical clash detection.