[1] Kukade, Jyoti, and Prashant Panse. "Advanced Deep Learning Model for Anomaly Detection Based Video Surveillance System." *International Journal of Intelligent Systems and Applications in Engineering* 12, no. 5s (2024): 477-485.

[2] Kukade, Jyoti, and Prashant Panse. "Designing a Deep Learning Model for Video Anomaly Detection-Based Surveillance." In *International Conference on ICT for Sustainable Development*, pp. 257-269. Singapore: Springer Nature Singapore, 2023.

[3] Kukade, Jyoti, Swapnil Soner, and Sagar Pandya. "Autonomous anomaly detection system for crime monitoring and alert generation." *Journal of Automation, Mobile Robotics and Intelligent Systems* 16, no. 1 (2022): 62-71.

Applying CNN authors have classified the events into anomalous or non-anomalous events. They take videos as input process them in frames and perform this binary classification. Although, they were unable to identify outliers in it [1].

The design of the deep learning model was proposed to video anomaly detection. Here author used extracting spatial features and LSTM for temporal dependencies between the frames. Significant accuracy was achieved on the UCSD pedestrian dataset [2].

The author proposed a deep learning approach for detecting crime through automatic driving vehicles. They have used OpenCV for object detection and LSTM for classification which results in surveillance of live streams like mob lynching or burglary. They have achieved 90% accuracy through their system [3].