**Abstract:**

In today's security-conscious landscape, the integration of Artificial Intelligence (AI) and Machine Learning (ML) into video surveillance systems for Indian railways is of paramount importance. This solution presents a comprehensive approach to designing and implementing a CCTV network mechanism that harnesses AI/ML and neural network technologies for real-time event detection, alert generation, and work monitoring. The video surveillance system to capture potential events like robbery, fighting, overcrowding, weapon detection, and excessive garbage on platforms. Video frames data undergo meticulous pre-processing, and labeled data aid in classifying these events. During real-time surveillance, the system utilizes efficient algorithms such as YOLOV8, OC-SVM (One-Class Support Vector Machine), and CrowdNet to provide low and high-alert notifications based on event impact. This AI-ML video surveillance system for Indian railways offers heightened security, efficient resource allocation, and real-time event monitoring in complex environments.