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**ABSTRACT**

Abnormal event detection is a growing demand to process a plethora of surveillance videos. Our project helps detect the abnormality in videos with high accuracy, thus saving time for organizations and individuals who would have to go through the entire footage instead.

The algorithm exploits inherent redundancy of videos and constructs a sparse combination learning matrix to identify possible abnormal events. The method implemented in the project provides an optimized and low computational solution to a highly complex problem.

The Usability of our project is high as it produces a decent performance on even ordinary desktop PCs using Python 2.7 and thus can be utilized by everyone with a basic computer system setup.

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