*Live surveillance*

*Through Motion Detection*

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***Abstract*— *In today’s world, every house hold is installing CCTV for security. But during crime, going through the videos manually to know the time of crime is a time-consuming task. To take care of such problems automatic surveillance systems can be developed using motion detection-based models. The advantage of such systems is their ability to detect motion or any change in background irrespective of the quality of the video. It can detect any movement by tracking the changes in each frame of a video. In this work, a motion detection model using Python has been proposed. The model has the ability to detect motion along with maintaining the record of time duration during which the motion in background is detected. The model works on both live and saved videos. The efficacy of the model has been compared with the existing models to prove superiority of the proposed model.***

***Keywords— Motion detection, security system.***