

Surveillance Video Management System

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Abstract— This paper objective is to introduce and emphasize the needs and applications of Surveillance Video Management System. Consider a CCTV camera which would automatically detect burglary act, road accidents and do the needful like inform the Police, and/or request an ambulance.

Keywords— Cameras, AI, Automated Security

1. Introduction



Fig. 1 Smart Camera at Hospitals

Fig. 1 shows a situation in which a patient falls off the bed in the hospital room. Now in case there's an AI enabled camera then it would just understand the situation and send an alarm to the authorities (as the image). This is exactly what is called Surveillance Video Management System. It is a smart system which would do the needful whenever required. It can be used to maintain traffic, take needful step when some anomaly occurs, for parking etc. It's basically a sort of smart Camera which once trained can act on its own and take rightful decision on its own. It has got literally lot of applications, it can be applied to say any field whether its keep an eye on the road traffic, parking lots, hotels, etc.

During the internship on this project, my responsibilities would be the following:

- Work with artificial intelligence scientist based out of Europe.

- Train & tune Neural Networks.
- Understand the working video analysis
- Develop an AI application

2. Steps Involved

- Understand the dataset.
- Construct a model and train it.
- Model construction using Neural Networks.
- Once trained and verified about the performance that application will be fed in the cameras, so that they can function as they are supposed to.

3. Conclusion

Once the application is developed it will be a lot useful in all kind of field. Like we know even they are constructing smart borders around the country. This system will be of great use even at that place. This kind of system will be very helpful to even put a check on road traffic and be helpful in any kind of scenario. I think once this is developed its going to be a great product as it can be used at numerous places and situations.