SRM INSTITUTE OF SCIENCE & TECHNOLOGY

Department of Computer Science & Engineering,

Faculty of Engineering and Technology

Final Year Major Project Work Viva - Voce Evaluation Form

Degree Programme : Btech. Type of Project work (Multi selection permitted)

Software Project

Experimental / Testing Project

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**Question 1. Need of the Project ?**

Answer 1.

The main objective of the project is to reduce the workload of security people when it comes to surveillance. This project will help them to detect unusual activity without surveying continously and also with a better classification.

**Question 2. Existing Methodology Used?**

Answer 2.

The methods or algorithms used are motion influence generation, optical flow of blocks, creating mega blocks and then training the machine with unusual frames and further testing with the same

Our methodology:

The algorthims used by us are quite similar to existing ones. The unique idea or technique which we bought is a change in training technique. Inspite of training the machine with unusual frames, we have done it with the usual frames and further tested with the unusual ones.

The reason behind this is that, unusual frames can be of many different types as it can easily be made different...but usual activities are maximum defined and hence will help to make the system more accurate

**Question 3. Parameters Used For the Evaluation ?**

Answer 3.

We have used 3 algorithms and a testing code to test or classify the frame. As the project is based on machine learning, it cannot be 100 percent accurate but the accuracy is more than 90%..

Comparing of frames was done to find the accuracy as we already knew the output

**Question 4. Improved Accuracy then existing methodology ?**

Answer 4.

There are some restrictions of the project which can be improved further. One is that the project at this moment is unable to get live footage as the input which requires multithreading techniques. Other improvement which can be bought is the restrictions of the height and width of the frames that are been put as the dataset

**Question 5. future enhancements ?**

Answer 5.

Our project works only for the global type of activities which are explained in the presentation. In future, we can enhance the working by making it work for both type of activities which will lead in detection of almost all types of unusual activities in a single project.