**PROJECT PROGRESS REPORT – 1**

**Project Title:** Smart Video Surveillance

**Type of Model:** Software based

**Project Objective:**

* To gather training datasets. **(completed)**
* To train an auto encoder for abnormal event detection**. (In progress)**
* To train the auto encoder on normal videos. **(In progress)**
* To identify the abnormal events based on the Euclidean distance of the custom video feed and the frames predicted by the auto encoder. **(In progress**)
* To automate the task of analysing video surveillance. **(In progress)**

Our first objective is to collect training dataset that can be used to trained our auto encoder for anomaly detection. We have not yet identified the auto encoder that is used by the system. We are in the process of searching an acceptable auto encoder.

**Progress of Work:**

In the process of gathering these training datasets, we have used some available pre-recorded datasets from different sources.

These datasets are:

CUHK Avenue Dataset

UCSD pedestrian Dataset

So overall we have completed 20% of the project work

**Difficulties:**

1. Any training dataset is not available for testing which means we will have to figure out the dataset on our own even for initial testing.

**2.** To find the auto encoder that is used by the system.

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