**Problem Statement 3: Category Detector**

The application should have the following features

* Browse a given folder containing videos.
* Perform Deep Learning inference on few frames in each video and deduce the category.
* Allow the user to search the videos based on the category deduced in the videos.

Example: A video showing a game of cricket should be categorized as sports. Also when the user searches sports category the video should be displayed in the list along with other sports videos.

What will be given during the day of the hackathon:

* A pre-trained model that needs to be trained on the images for those three categories. The participants will have to scrape the images for the given categories from internet to retrain the deep learning model.
* The videos on which the application should perform category detection and search.

**Links** -

Installation :

<https://www.tensorflow.org/install/>

Reference Links :

<https://www.tensorflow.org/tutorials/image_retraining>

<https://github.com/tensorflow/tensorflow/tree/master/tensorflow/examples/image_retraining>

<https://www.tensorflow.org/tutorials/image_recognition>

Model for retraining:

<http://download.tensorflow.org/models/image/imagenet/inception-2015-12-05.tgz>