**Human Activity Recognition**

1. **Introduction:**

Finding out whether a person in a picture or video is carrying out a certain activity is known as action recognition. AI models may be taught to identify a wide range of behaviors, including jogging, sleeping, drinking, falling, and riding a bike.

1. **Method:**

We have used model ResNet 3D for the prediction of the data.This deep learning model is similar to the well known ResNet architecture. But in ResNet 3D, we use 3D convolutional layers instead of the 2D convolutional layers.

1. **Dataset and Model Links**

DataSet: <https://deepmind.com/research/open-source/kinetics>

Model: *Human Action Recognition in Videos using PyTorch*

https://debuggercafe.com/human-action-recognition-in-videos-using-pytorch/

1. **Software Dependencies and Libraries**

Torch, Albumentaions, opencv-python

1. **Hardware Dependencies:**

No dependencies.

1. **GPU Needed**
   1. The system is hardware agnostic. However, the recommended GPU is Nvidia 1050 Ti or 1660 or above for real time processing.
   2. The system can work on Intel CPUs with less FPS.
2. **Supported OS**

* Linux
* Windows
* Collab