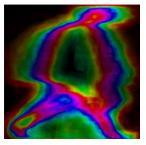
Gait Analysis-Workflow

Link-Gait analysis

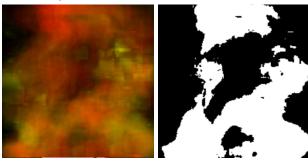
 Trained CNN model for optical flow merged with cropped average image. Got accuracy of 98.75%

Link-cnn opfl hsv

- Trained CNN model for cropped average image. Got accuracy of 70%.
 Link-cnn avg image
- Trained CNN model for optical flow. Got accuracy of 82.5%.
 Link-cnn_opfl
- Sorted the dataset into folders for training the model.
- Found the merged optical flow with cropped average image and saved the result obtained



- Trained the ANN model with extracted features. Got accuracy of 94% Link-ann_model
- Extracted the features using tsfresh library for the dataset using the time series of head, torso, and leg (x,y) coordinates.
- Found the optical flow of the video both (grayscale and hsv) using cropped (bounding box) images.



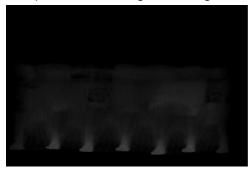
- Found the centroid of each head, torso, and leg image which we will use as coordinates for the time series.
- Cropped the head, torso, and leg of each image for the complete dataset.



Computed the average cropped image of the complete video.



• Computed the average full image of the complete video



• Cropped the image (bounding box) using the largest contour detection if more than one contours were found.

