CHAPTER 6

RESULTS

The below graph shows the absolute frame index difference varying throughout the frames. An image is considered only if the difference is greater than threshold and if an image has frame index less than threshold then that image is removed.
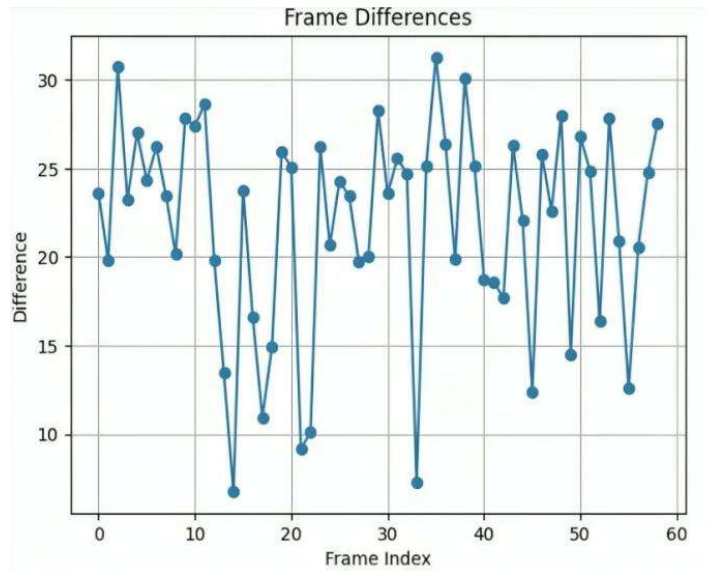

Figure 14: Absolute Difference Graph of Representative Frames

The below graph depicts the performance of Paddle OCR across various images. It shows how close the predicted results are to the actual ground truth.
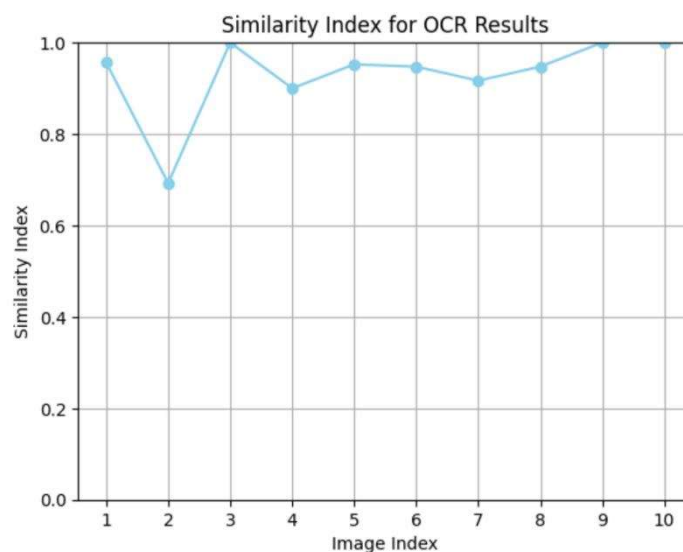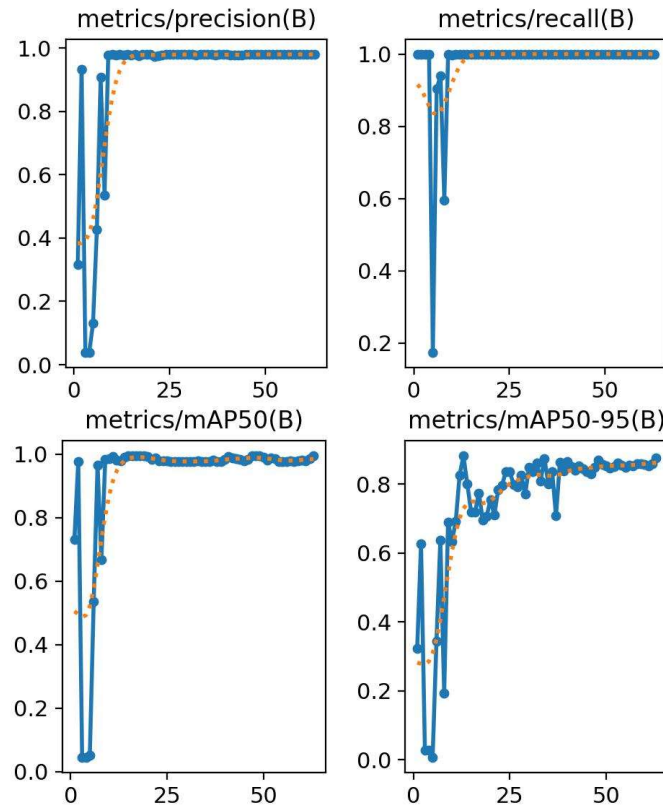

Figure 15: Similarity index graph of various images

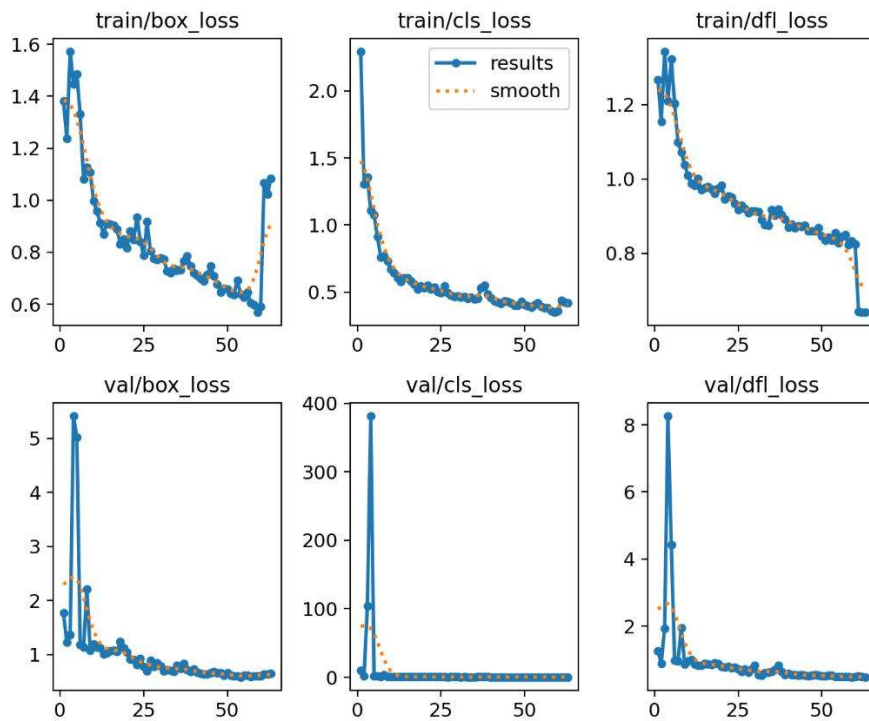Figure 16: YoloV8 with SGD optimizer recall, and mean average precision (mAP) graph

Figure 17: YoloV8 with SGD optimizer train/loss/val accuracy graph

The above graphs show all the plots of the YOLOv8 model i.e. box loss, objectness loss, classification loss, precision, recall, and mean average precision (mAP) over the training epochs for the training and validation set.

The below graph shows all the plots of the VGG16-LSTM encoder decoder model's accuracy and VGG16-LSTM encoder decoder model's loss history respectively over the training epochs for the training and validation set.
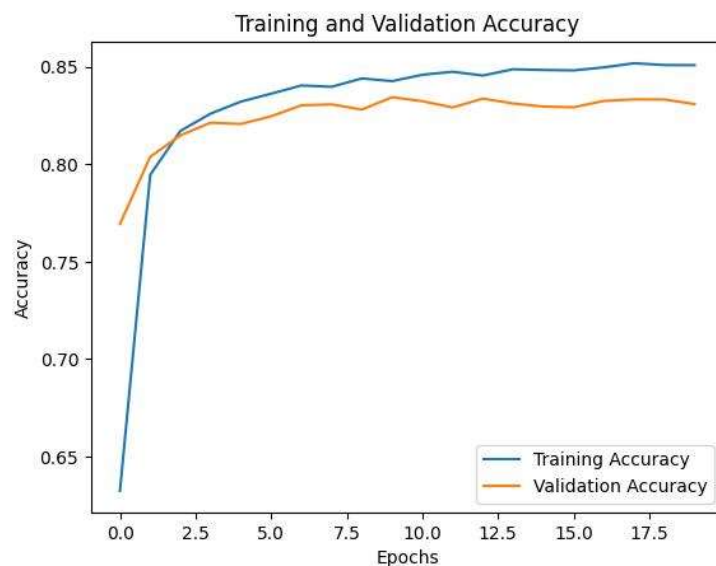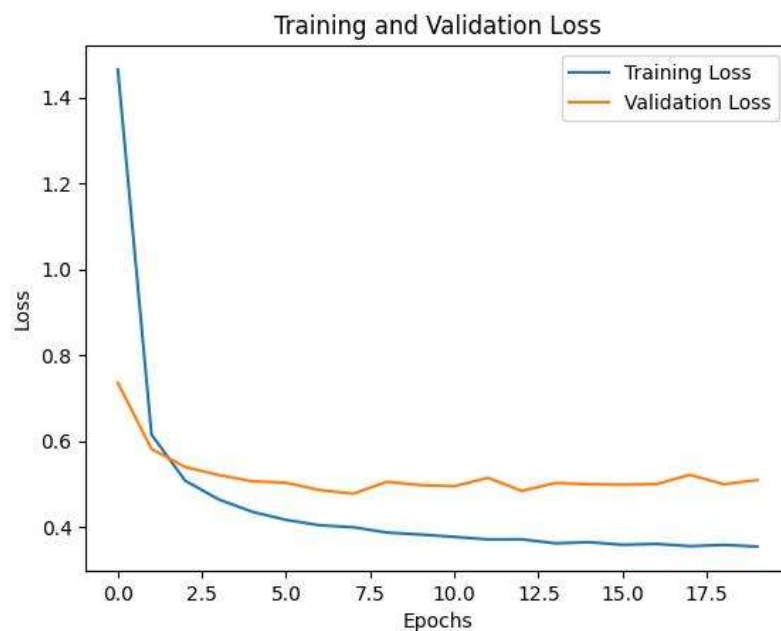

Figure 18: VGG16-LSTM Training and Validation Accuracy

Figure 19: VGG16-LSTM Training and Validation Loss

The following figures shows the frontend website for getting the summaries of uploaded videos.
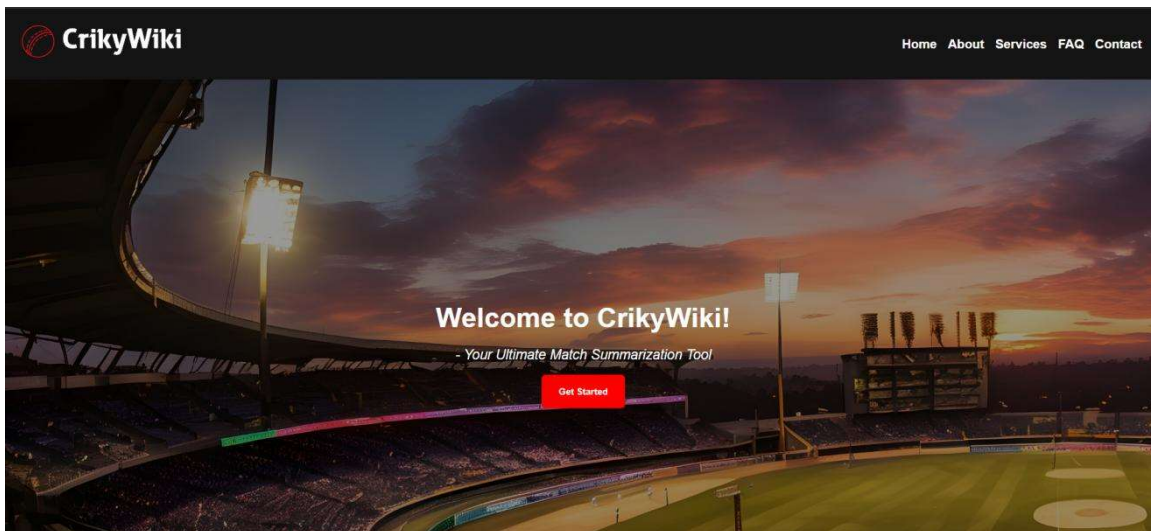
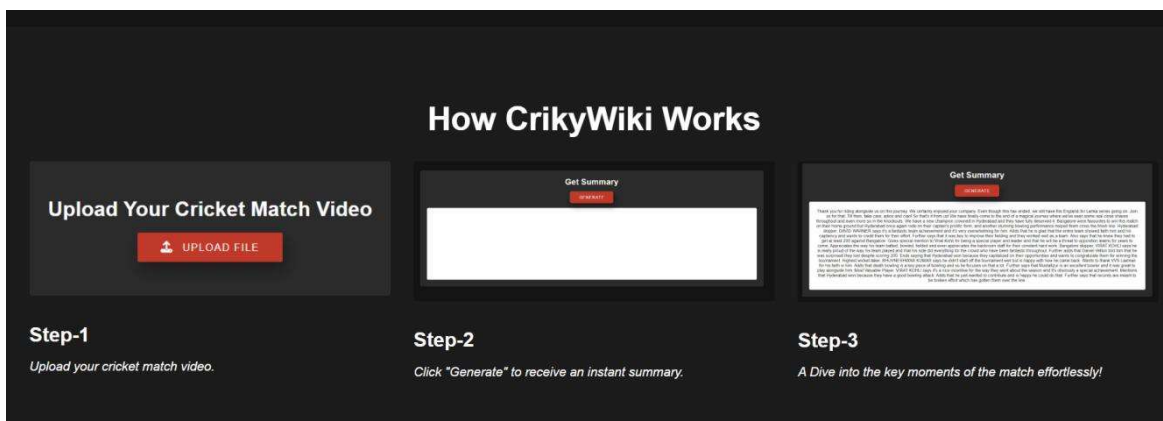Figure 20: CrikyWiki fronted web interface

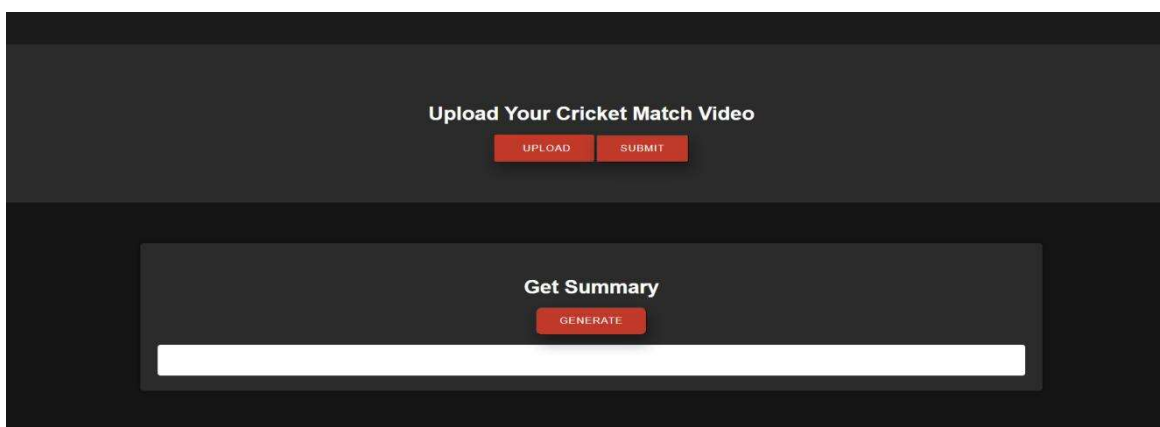Figure 21: Working of website to get summaries

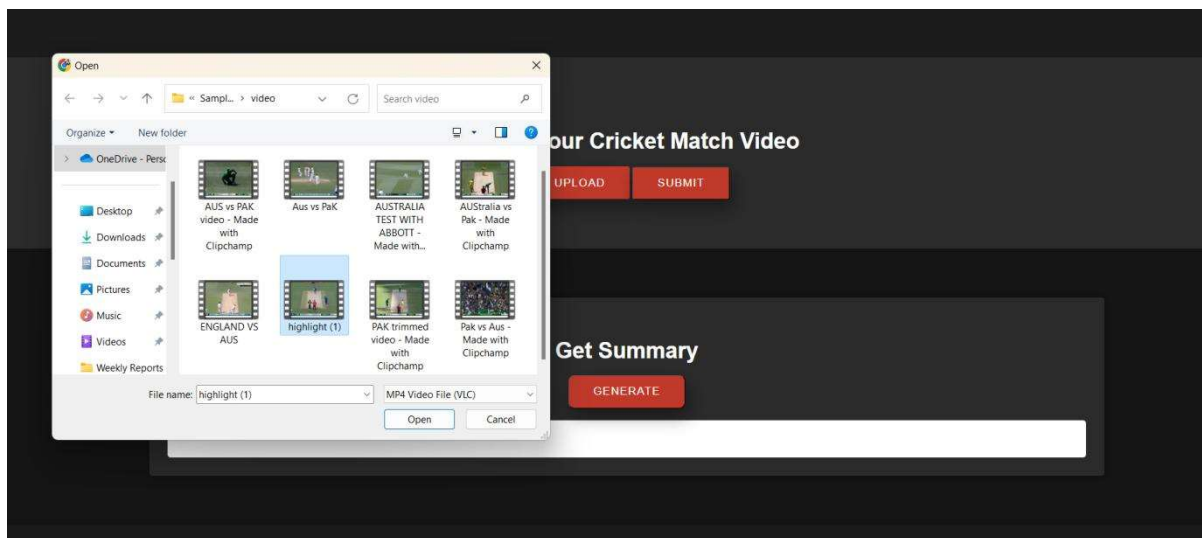Figure 22: Web interface to upload and submit the video for summary

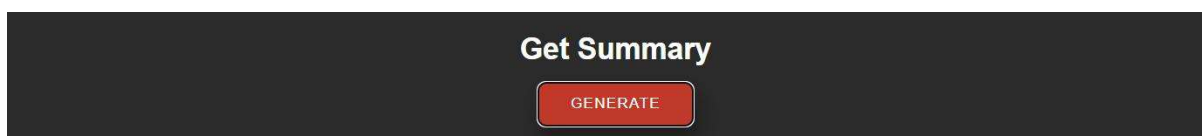Figure 23: Uploading and submitting a Cricket Match Video

Figure 24: Result summary of uploaded cricket match video