

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.

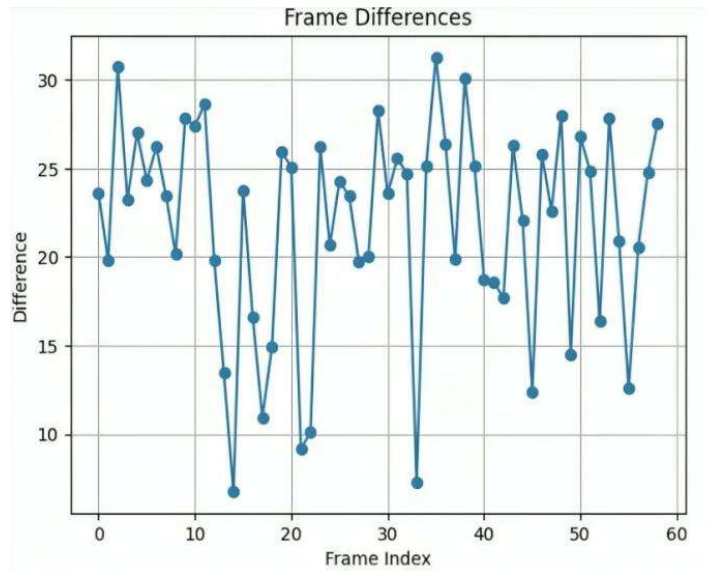


Figure 14: Absolute Difference Graph of Representative Frames

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.

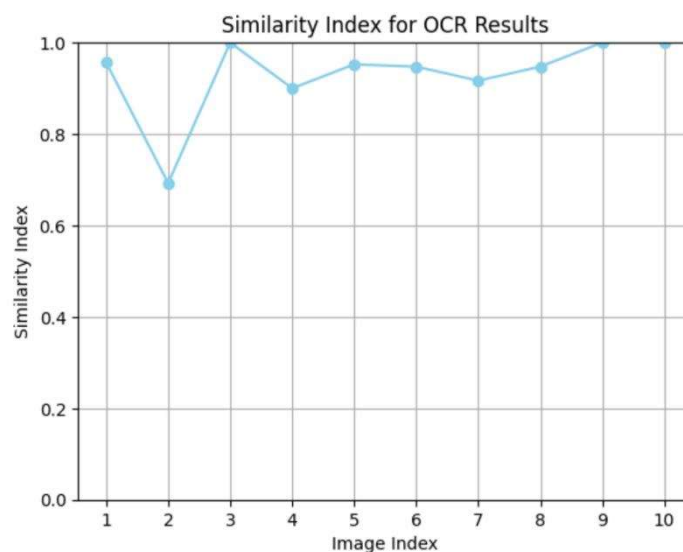


Figure 15: Similarity index graph of various images

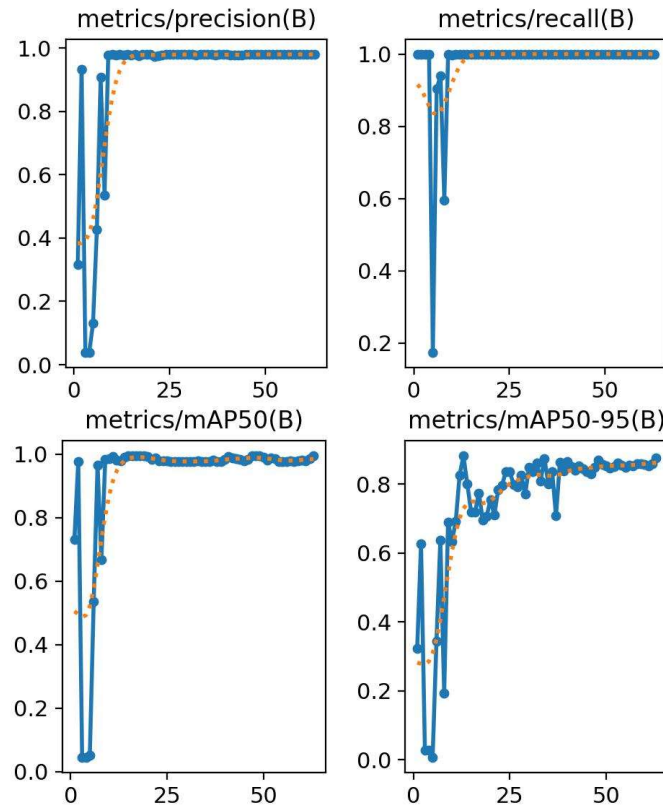


Figure 16: YoloV8 with SGD optimizer recall, and mean average precision (mAP) graph

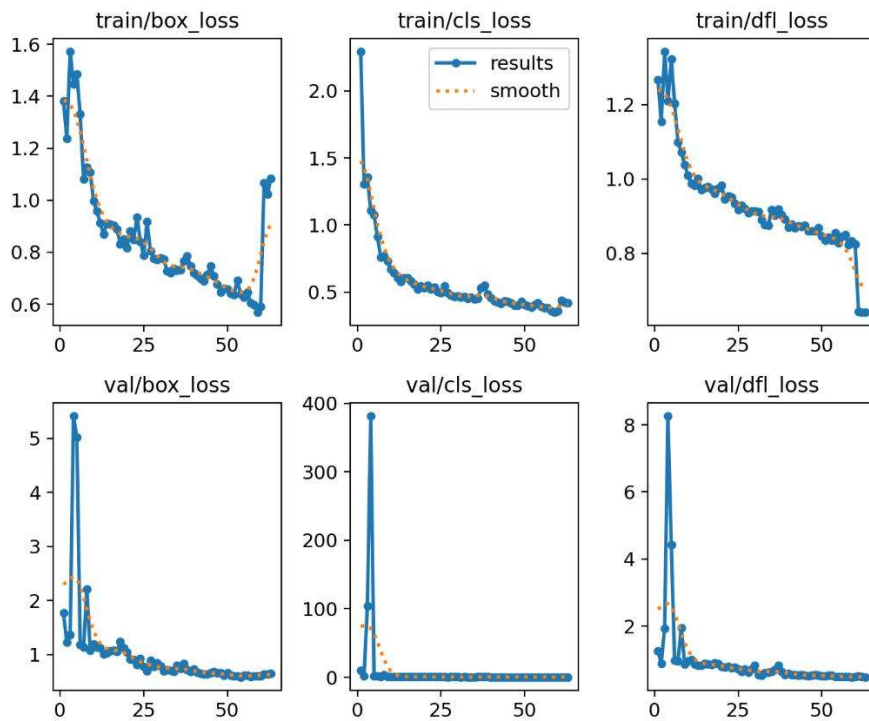


Figure 17: YoloV8 with SGD optimizer train/loss/val accuracy graph

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.

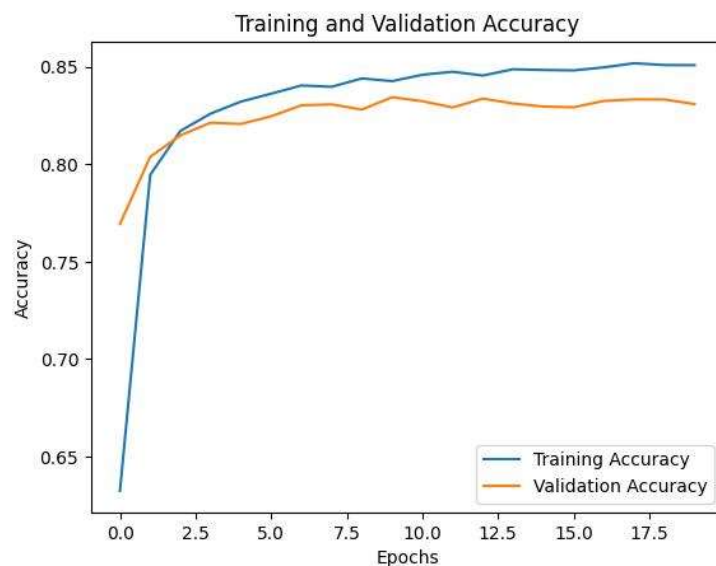


Figure 18: VGG16-LSTM Training and Validation Accuracy

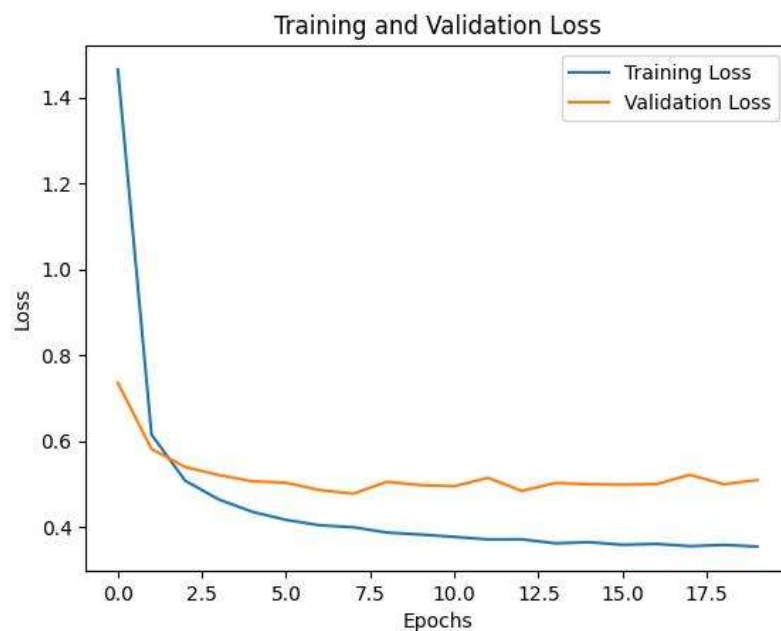


Figure 19: VGG16-LSTM Training and Validation Loss

The following figures shows the frontend website for getting the summaries of uploaded videos.

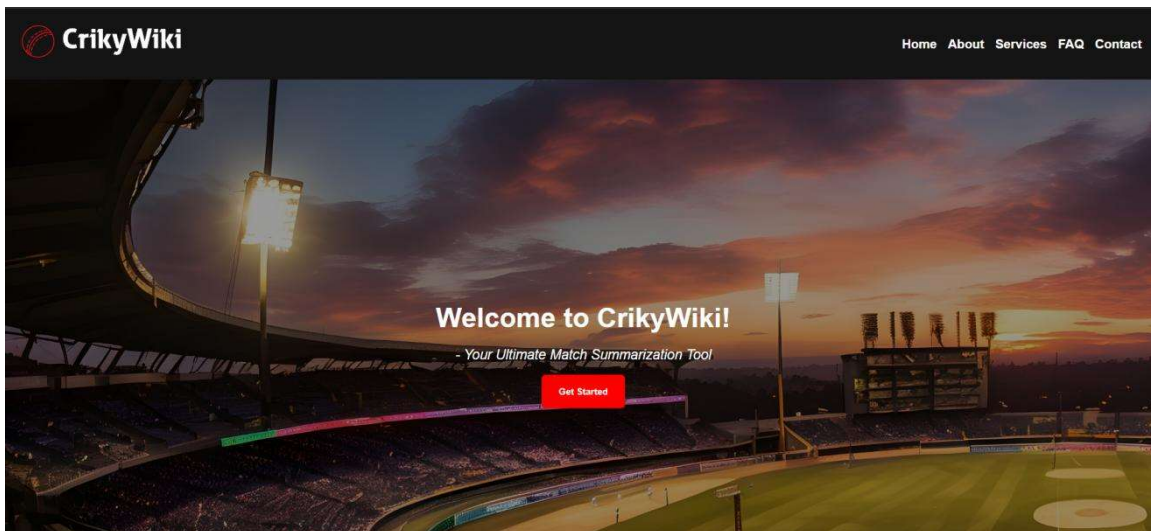


Figure 20: CrikyWiki fronted web interface

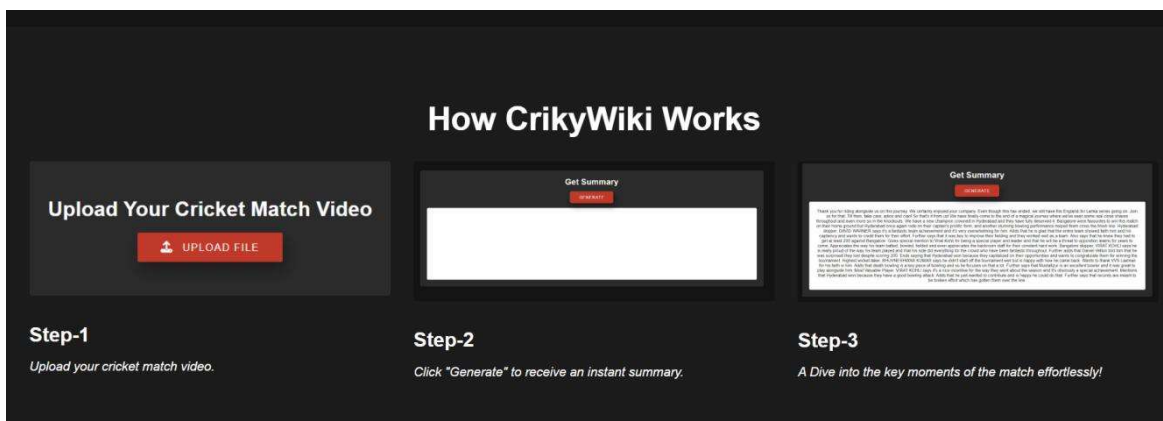


Figure 21: Working of website to get summaries

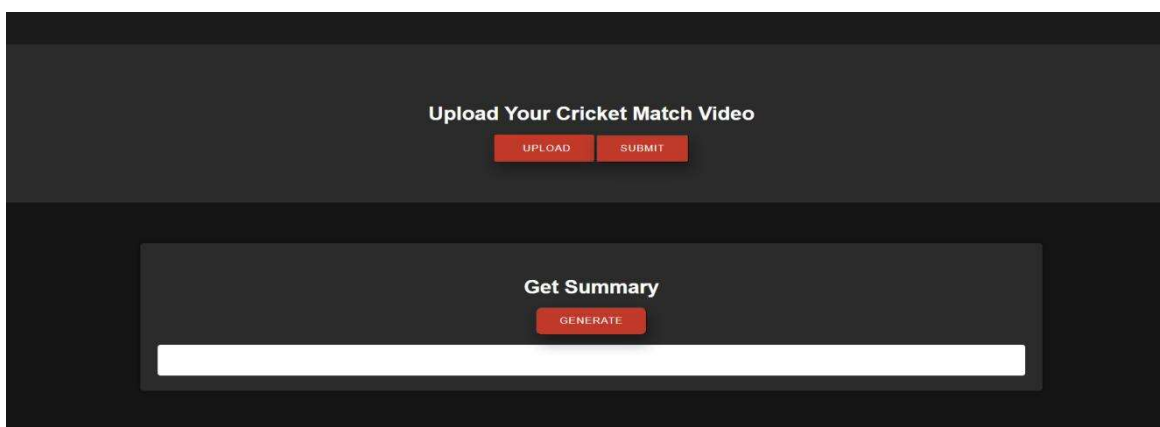


Figure 22: Web interface to upload and submit the video for summary

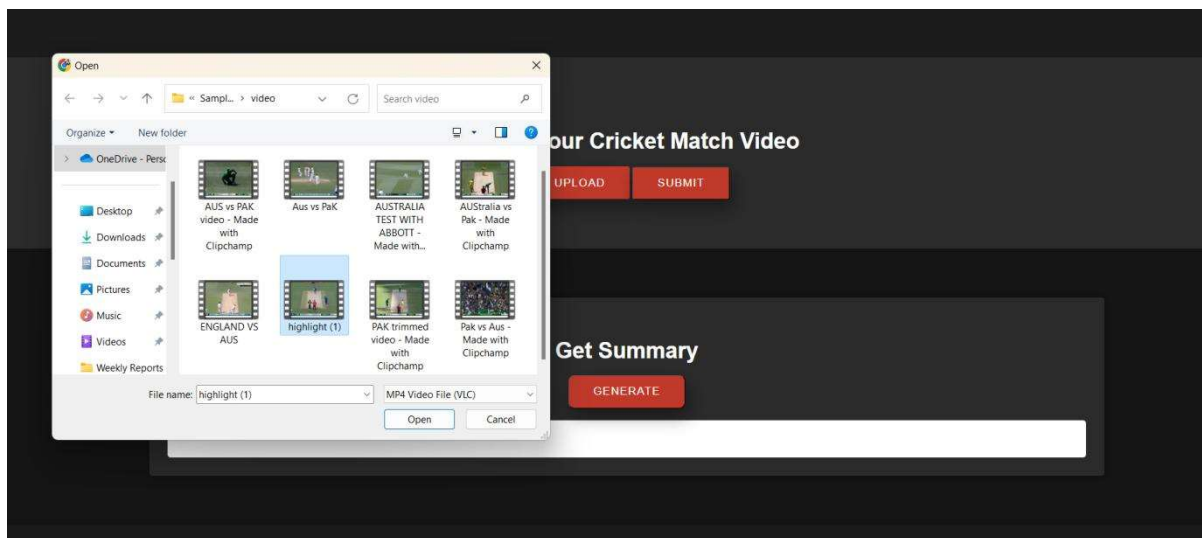
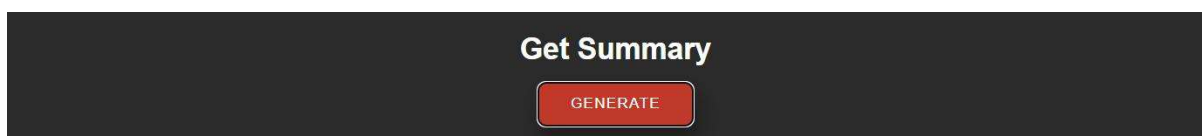


Figure 23: Uploading and submitting a Cricket Match Video



" SL is leading the charge at 138 runs with 7 wickets down after 18.1 overs. Gunarathne has scored 47.0 runs off 37.0 balls, anchoring the innings for SL. SRI LANKA NEED 36 MORE RUNS TO WIN FROM 11 BALLS characterizes the intense battle unfolding in the match.

SL is setting the tempo of the match with an impressive run rate of 7.6. Gunarathne is contributing valuable runs, scoring 47.0 runs off 37.0 balls for SL. HENRIQUES is applying pressure on SL's batsmen with consistent line and length, bowling at 125.6KM/H.

SL need a run rate of 18.0 to stay alive in the face of the opposition's onslaught. The match hangs in the balance, with SRI LANKA NEED 30 MORE RUNS TO WIN FROM 10 BALLS. The opposition bowler, HENRIQUES, is maintaining an intimidating pace of 125.6KM/H kmph.

Sri Lanka need to achieve a run rate of 18.0 for victory, struggling with a 7.85 run rate. SL needs to achieve an 18.1 run rate to have any hope of winning. With PAKISTAN NEED 81 more runs to win from 118 BALLS, PAK is firmly in control.

Both teams are evenly matched, setting the stage for an exciting finish. With PAKISTAN NEED 79 MORE RUNS TO WIN FROM 110 BALLS, PAK is firmly in control of the proceedings. With an impressive effort, HAFEEZ has scored 72.0 runs off just 103.0 balls for PAK.

Match is delicately poised, with every run and wicket crucial in determining the result. CUMMINS is bowling at 142.0KM/H kmph and already having taken 0.0 wickets. With a run rate of 4.44, PAK is keeping the scoreboard ticking at 157 for 4 in 35.3 overs.

PAK is struggling at 160 runs with 3 wickets down in 36.3 overs, while HAZLEWOOD has 0 0 wickets for 24.0 runs. To salvage the match, PAK requires a run rate of 4.52 more, with the current run rate languishing at 4.38. PAKISTANNEED 61 more runs to win from 81 BALLS.

PAK is leading the charge at 203 runs with 4 wickets down after 44.3 overs. With PAKISTAN needing 18 more runs to win from 33 BALLS, PAK are firmly in control of the proceedings. AUS is anchoring the innings at 59 for 2 in 19.3 over at the end of the match.

Figure 24: Result summary of uploaded cricket match video