CRCV REU - Week 5

Real-Time Detection of School Bullying Using CCTV

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YOUTUBE DATASET CURATING PROCESS

- Query “school bullying” and “school bullying scenes in movies/series”
- Ask ChatGPT for school bullying in movies/series
- Query bullying in the movies from ChatGPT on YouTube
- Screen record the bullying scenes
- Wrote a script to divide the captured scenes to 4 secs videos
- Categorized the 4 seconds videos to their respective classes

DATASET

n/o	Classes	Number of videos
1	choke	32
2	hit_with_an_object	57
3	kick	91
4	shove_hold_drag	378
5	slap_punch	244
6	fight_beat_hit	287
	TOTAL =	**1089**

T2L

30 frames selected on average (4 secs ~ 120 frames total)

id	name
0	person choking another by gripping the neck
1	person hitting or throwing an object at someone
2	one or more people kicking another with force
3	person shoving or holding or dragging another person
4	person slapping or punching another with open or closed hand

n/o	Classes	Accuracy
1	**Choke**	**Top1: 58.620689655172406, Top5: 100.0**
2	Kick	Top1: 1.149425287356321 8, Top5: 100.0
3	slap_punch	Top1: 0.0, Top5: 100.0
4	shove_hold_drag	Top1: 3.591160220994475, Top5: 100.0
5	**hit_with_an_object**	**85.96491228070175, Top5: 100.0**

ActionClip

30 frames

n/o	Classes	Accuracy
1	**Choke**	**Top1: 93.10344827586206, Top5: 100.0**
2	Kick	Top1: 33.33333333333333, Top5: 100.0
3	slap_punch	Top1: 3.083700440528634 3, Top5: 100.0}
4	shove_hold_drag	Top1: 30.386740331491712, Top5: 100.0
5	**hit_with_an_object**	**Top1: 47.36842105263157 5, Top5: 100.0**