

```
In [1]: import pandas as pd
import numpy as np
from collections import Counter
from matplotlib import pyplot as plt
import os
import cv2
%matplotlib inline
```

```
In [2]: def load_filepaths():
    imdir_ideology = 'ideology_image_dataset/'
    ideology_files=os.listdir('ideology_image_dataset/')
    ideology_files_path=[os.path.join(imdir_ideology,file) for file in ideology_files]

    return ideology_files_path

ideology_files_path=load_filepaths()
len(ideology_files_path)
```

Out[2]: 2942

```
In [3]: def showClustering(predicted_labels,label):
    label_indexs= np.where(predicted_labels==label)[0]
    print("CLUSTER--> ",label,"TOTAL IMAGES--> ",len(label_indexs))
    if(len(label_indexs)>=500):
        fig=plt.figure(figsize=(10, 400))

    elif(len(label_indexs)>100 and len(label_indexs)<500):
        fig=plt.figure(figsize=(10, 70))
    elif(len(label_indexs)>=50 and len(label_indexs)<100):
        fig=plt.figure(figsize=(10, 30))

    elif(len(label_indexs)>=20 and len(label_indexs)<50):
        fig=plt.figure(figsize=(10, 20))

    elif(len(label_indexs)>=0 and len(label_indexs)<20):
        fig=plt.figure(figsize=(10, 8))

    for i,index in enumerate(label_indexs):

        image = cv2.imread(ideology_files_path[index])
        image= cv2.cvtColor(image, cv2.COLOR_BGR2RGB)

        columns = 4
        rows = np.ceil(len(label_indexs)/float(columns))

        fig.add_subplot(rows,columns, i+1)
        plt.imshow(image)

    plt.show()
```

```
In [4]: results_df=pd.read_csv('D://Himani-work/gsoc2020/code/image-results-updateGrid/ideology_model_densenet121.npy-tsne.csv')  
results_df
```

Out[4]:

	Unnamed: 0	n_clusters	silhouette	calinski	davies
0	HDBSCAN	726	0.155959	6.611014	1.234863
1	DBSCAN	776	0.400841	17.989613	1.139023
2	Mean-shift	3	0.341290	1798.182341	1.019144
3	Optics	452	0.136648	12.756291	1.246292

HDBSCAN

```
In [5]: predicted_Labels=np.load('D://Himani-work/gsoc2020/code/image-results-updateGr  
id/ideology_model_densenet121.npy-pca-tsne_hdbscan_labels.npy')  
unique_labels=set(predicted_Labels)  
for label in unique_labels:  
    if(label!=-1):  
        showClustering(predicted_Labels,label)
```

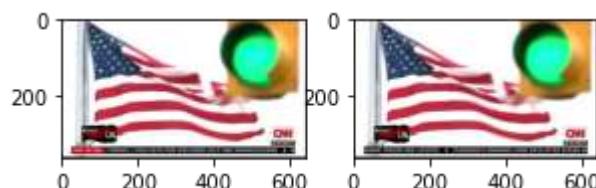
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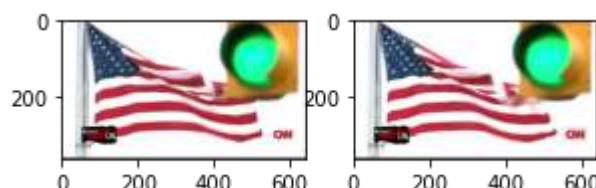
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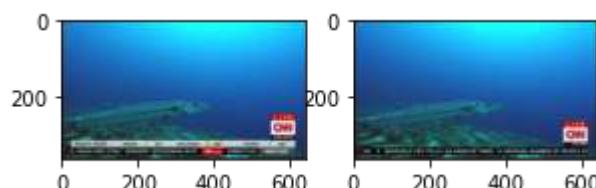
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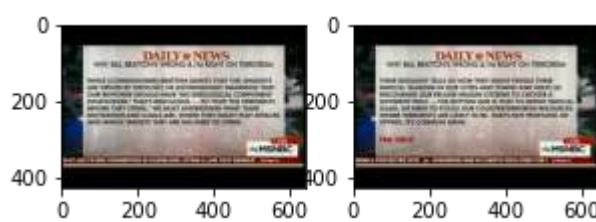
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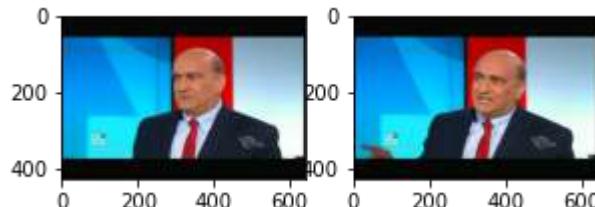
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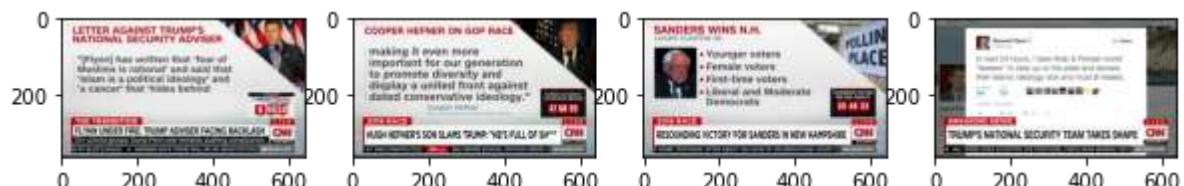
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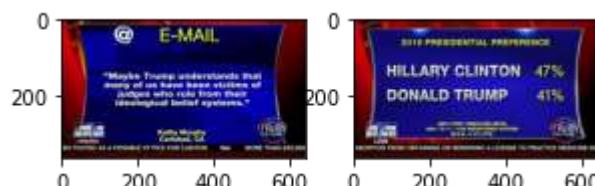
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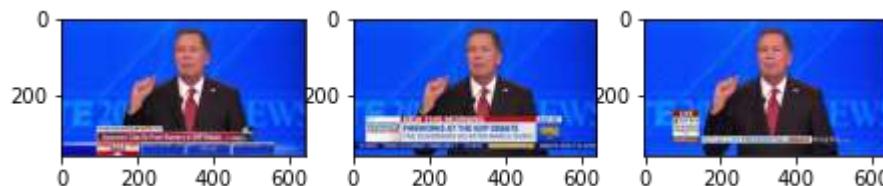
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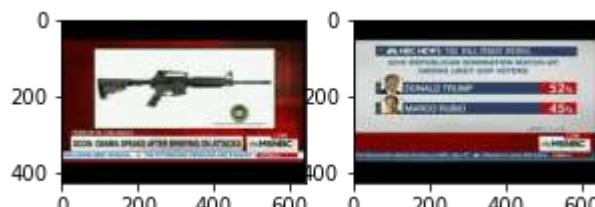
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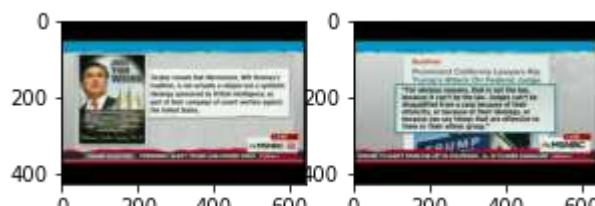
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CLUSTER--> 11 TOTAL IMAGES--> 2



CLUSTER--> 12 TOTAL IMAGES--> 2



CLUSTER--> 13 TOTAL IMAGES--> 4



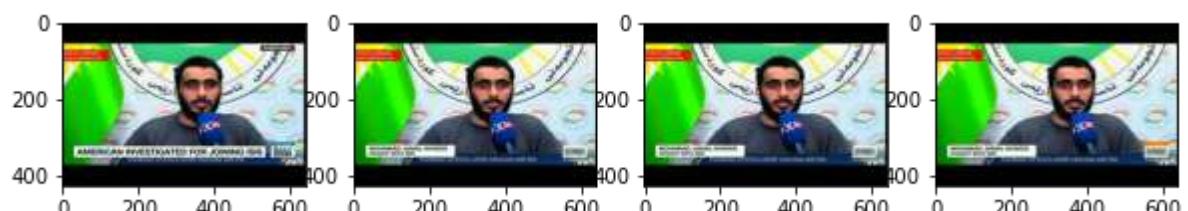
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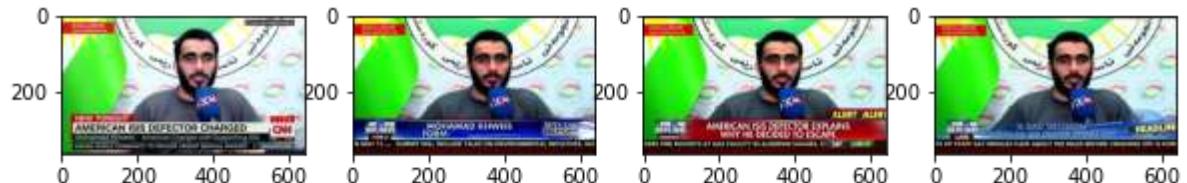
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CLUSTER--> 16 TOTAL IMAGES--> 4



CLUSTER--> 17 TOTAL IMAGES--> 5



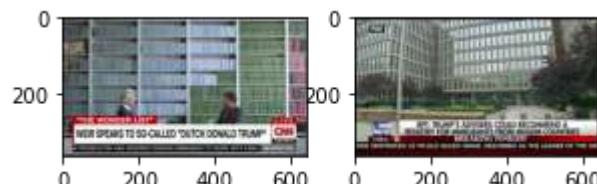
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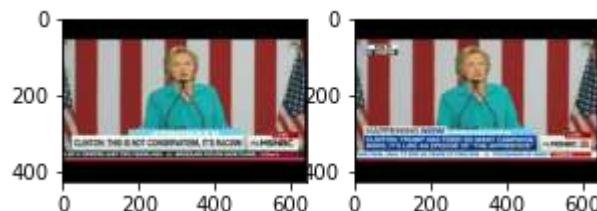
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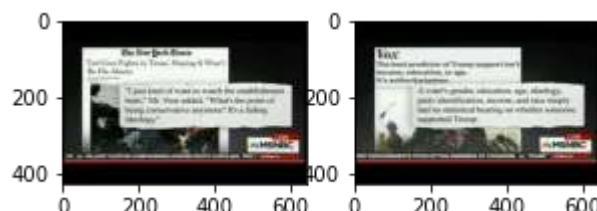
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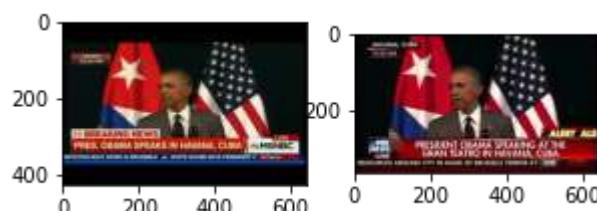
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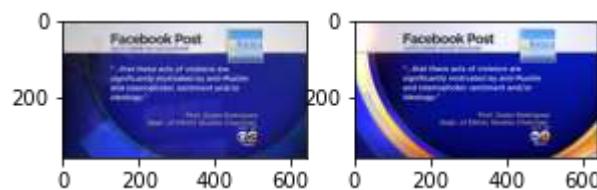
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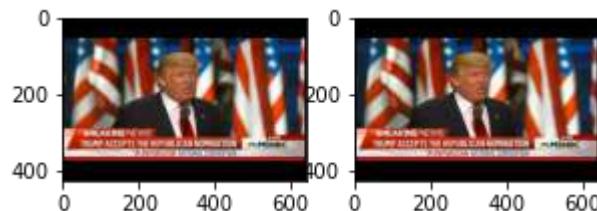
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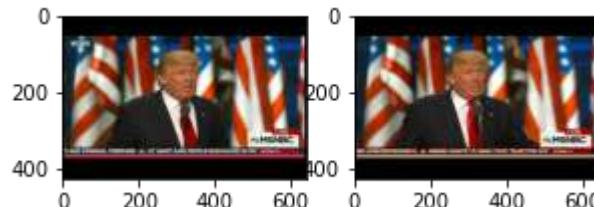
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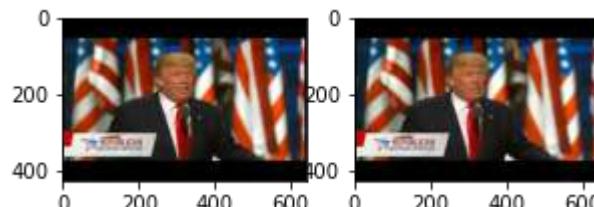
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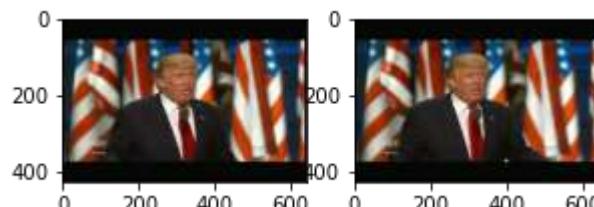
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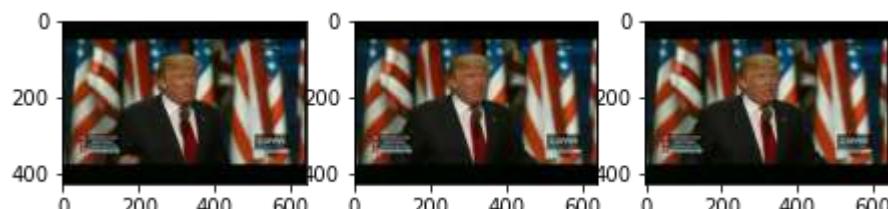
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CLUSTER--> 28 TOTAL IMAGES--> 2



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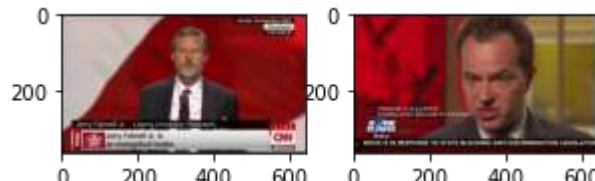
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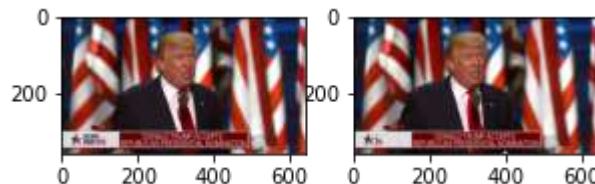
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CLUSTER--> 33 TOTAL IMAGES--> 2



CLUSTER--> 34 TOTAL IMAGES--> 2



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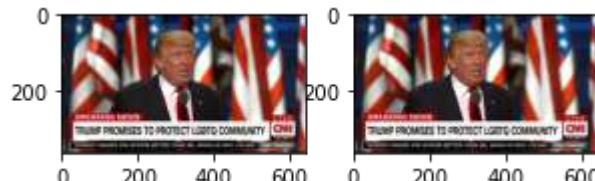
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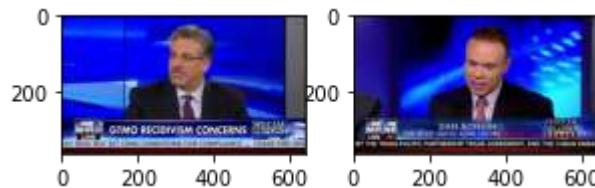
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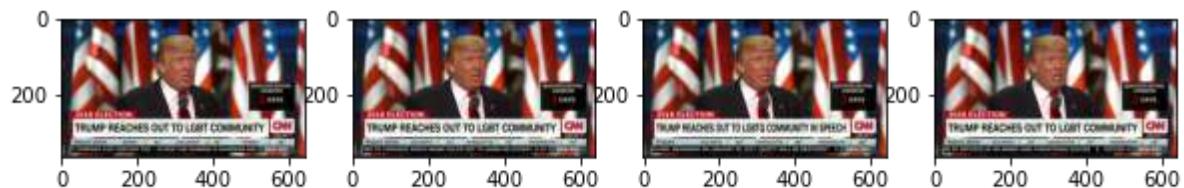
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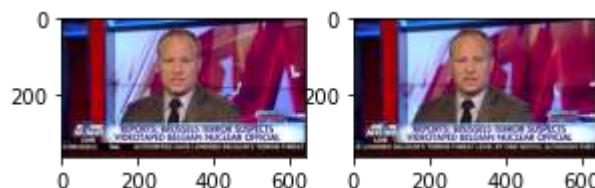
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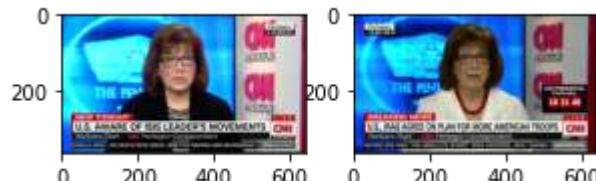
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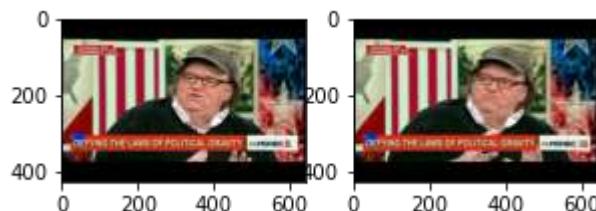
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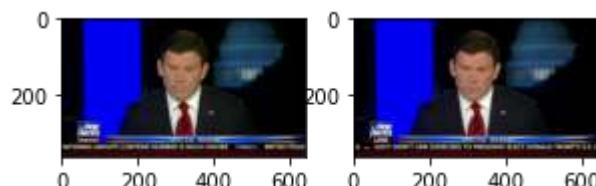
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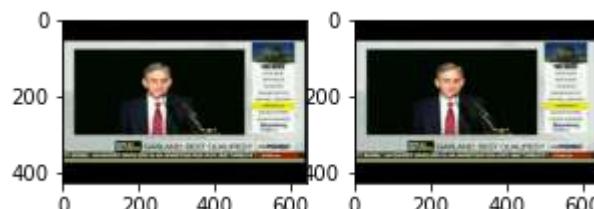
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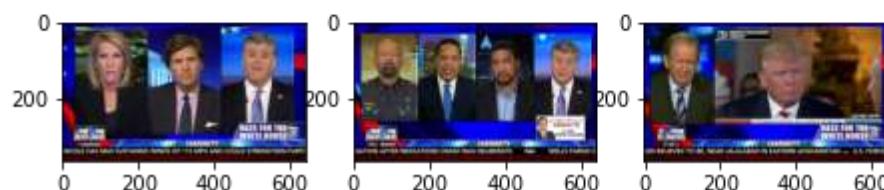
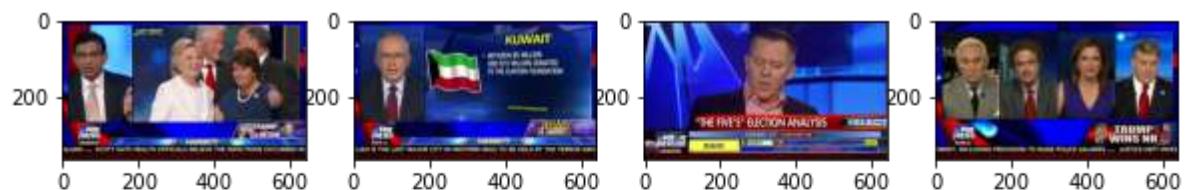
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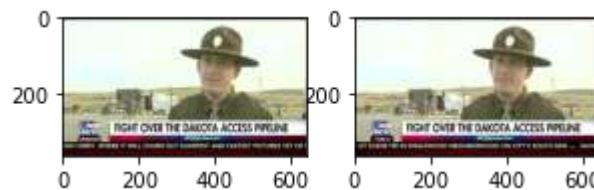
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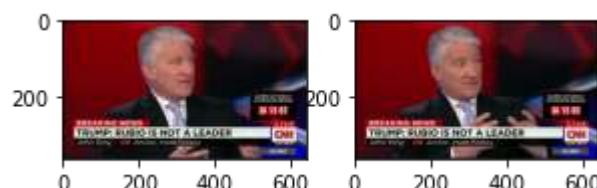
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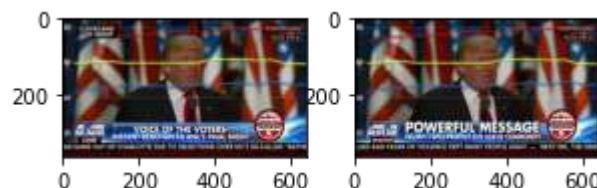
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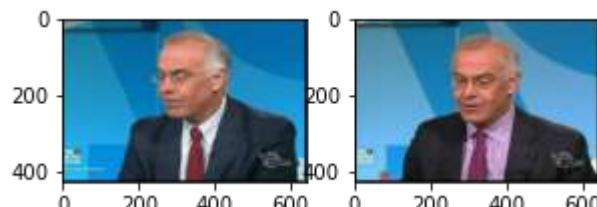
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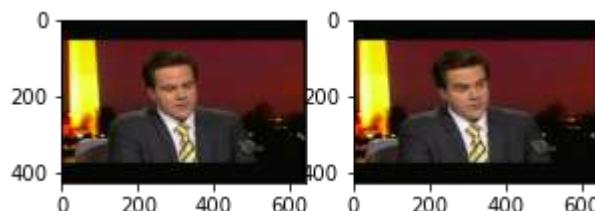
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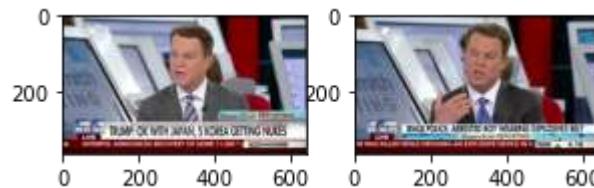
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CLUSTER--> 67 TOTAL IMAGES--> 2



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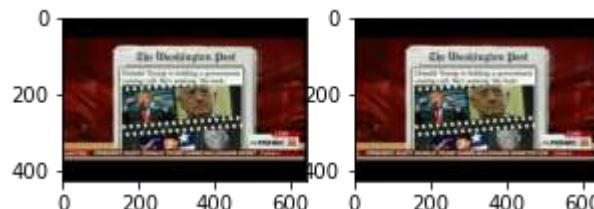
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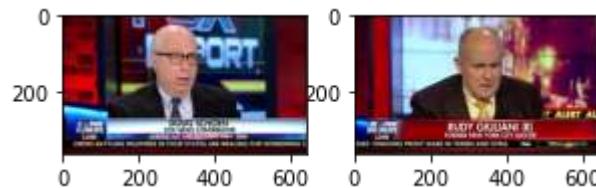
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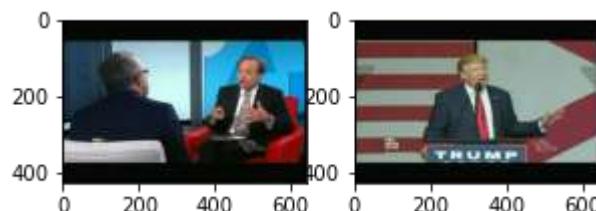
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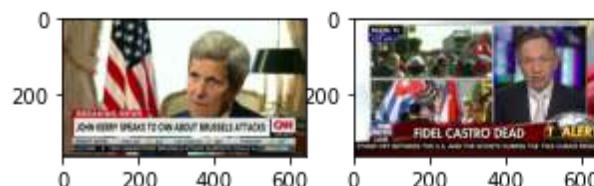
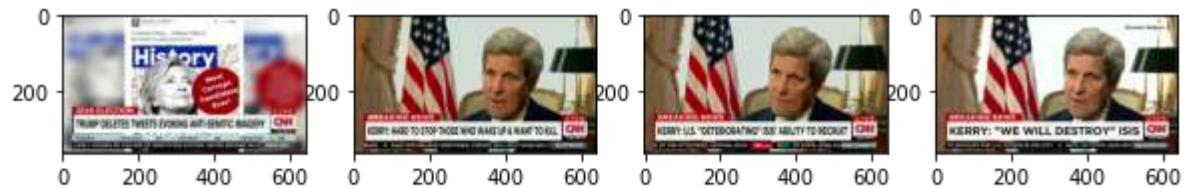
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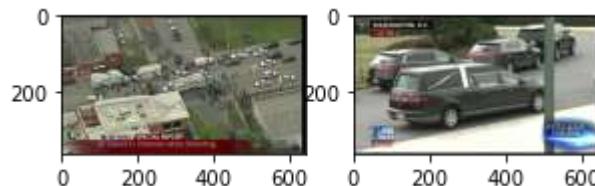
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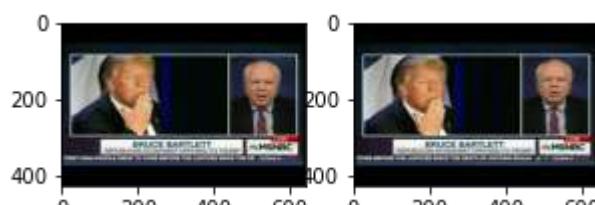
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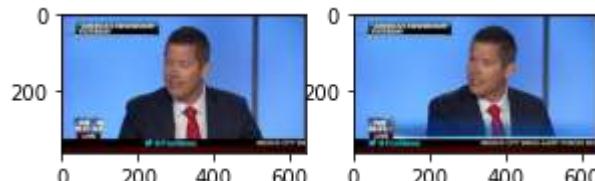
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CLUSTER--> 87 TOTAL IMAGES--> 2



CLUSTER--> 88 TOTAL IMAGES--> 2



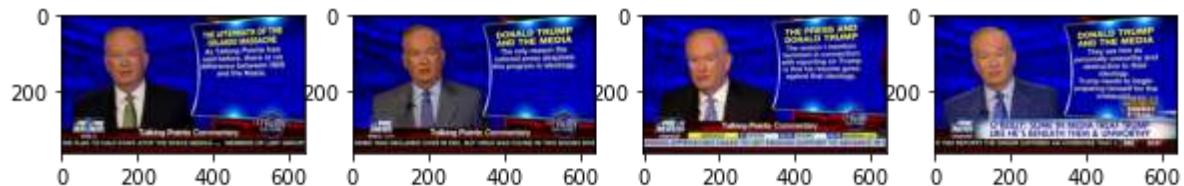
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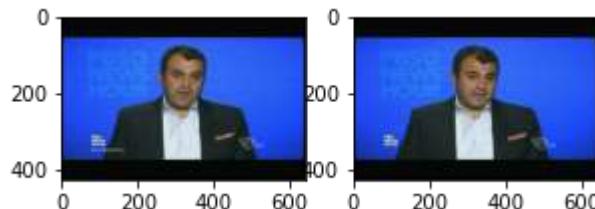
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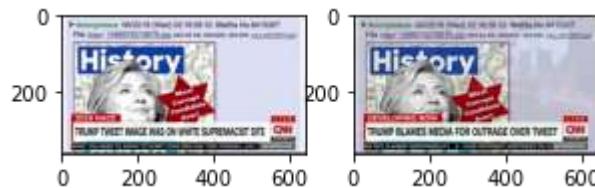
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CLUSTER--> 94 TOTAL IMAGES--> 2



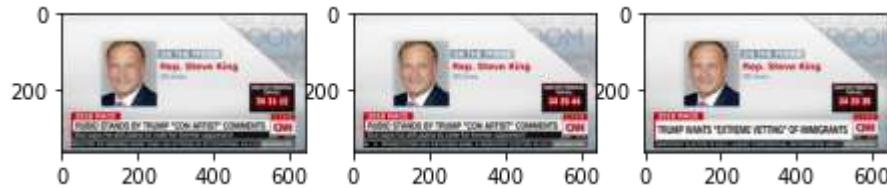
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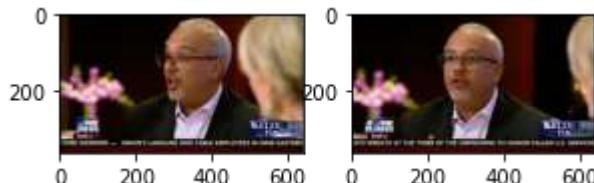
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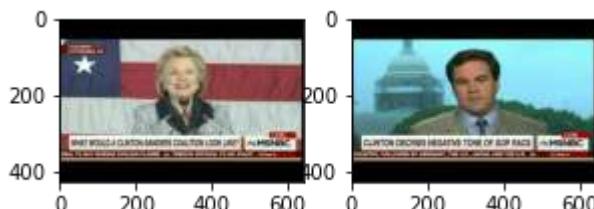
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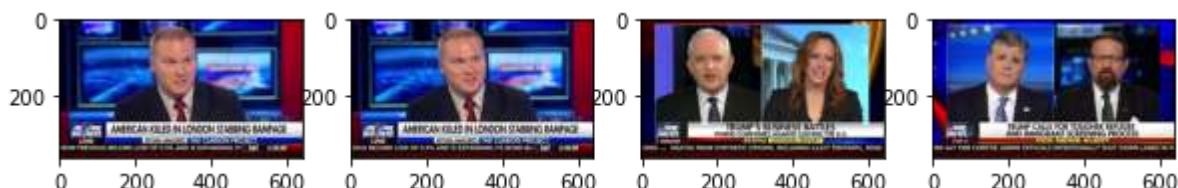
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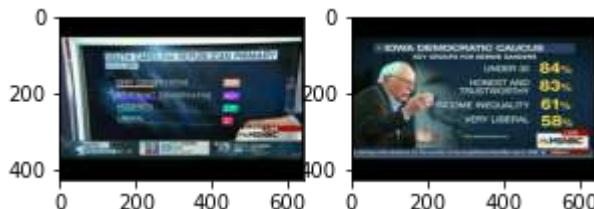
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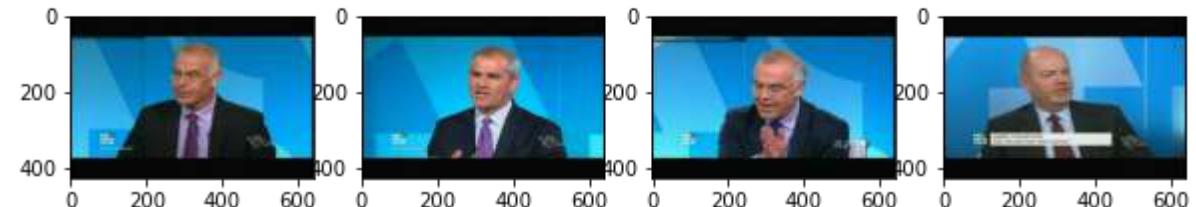
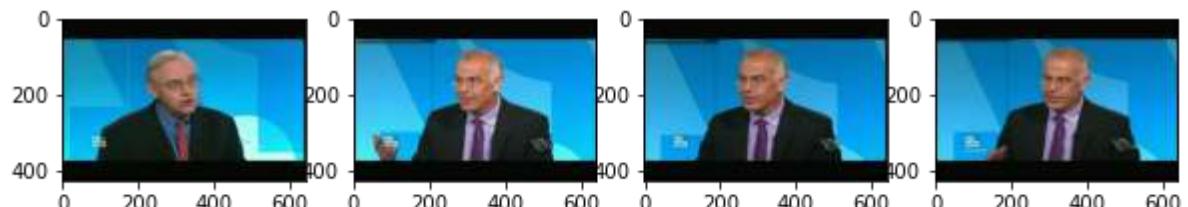
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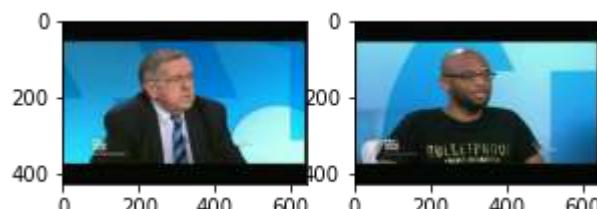
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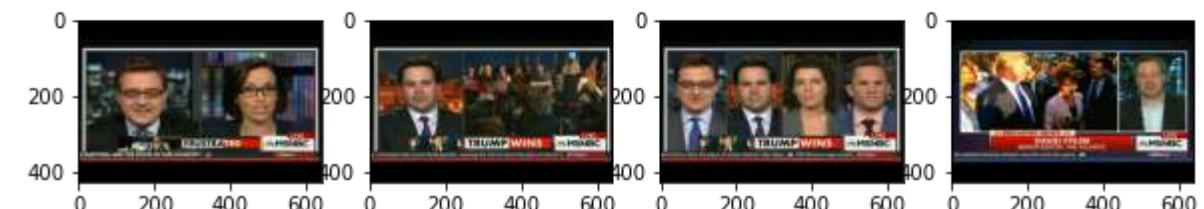
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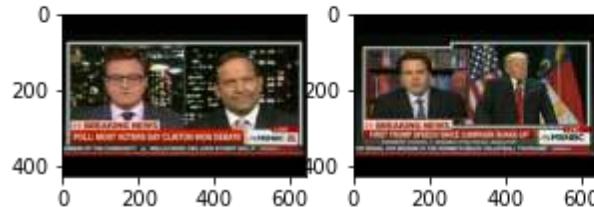
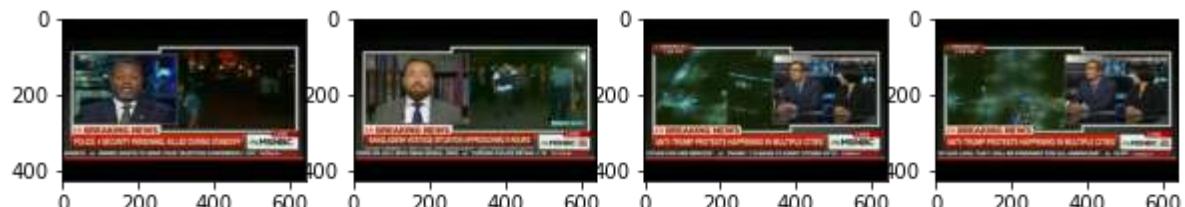
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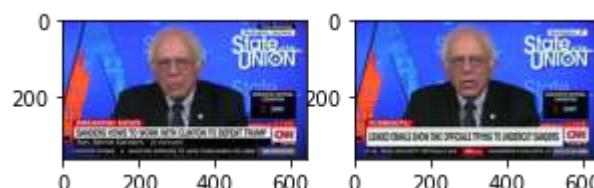
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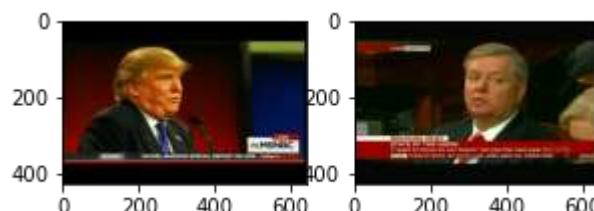
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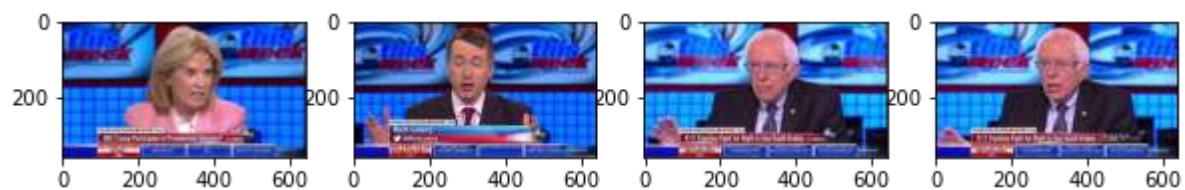
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CLUSTER--> 110 TOTAL IMAGES--> 2



CLUSTER--> 111 TOTAL IMAGES--> 4



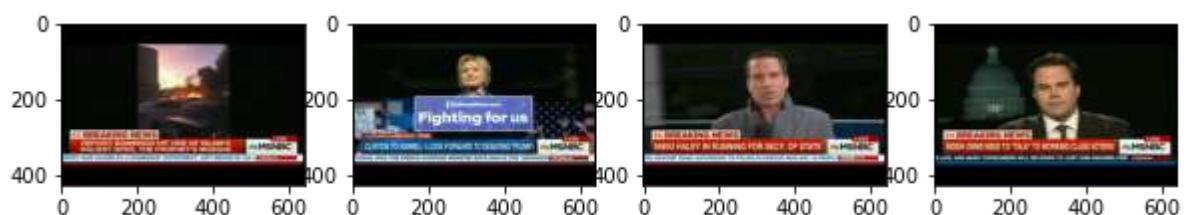
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CLUSTER--> 113 TOTAL IMAGES--> 2



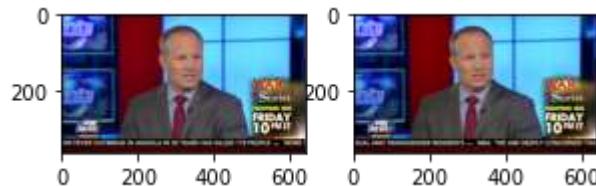
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CLUSTER--> 116 TOTAL IMAGES--> 2



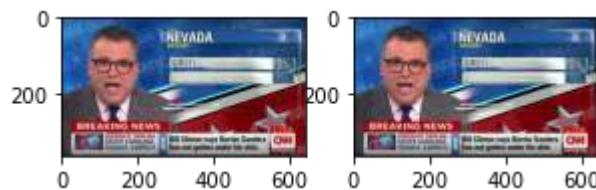
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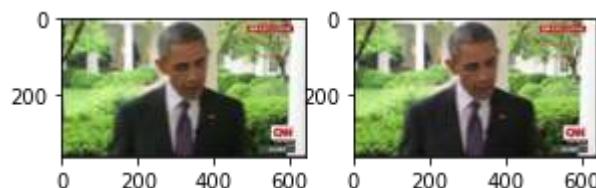
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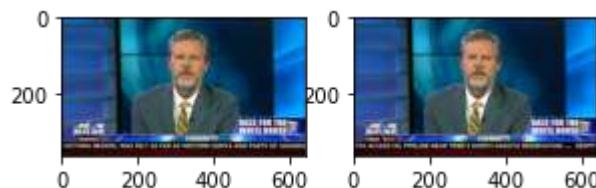
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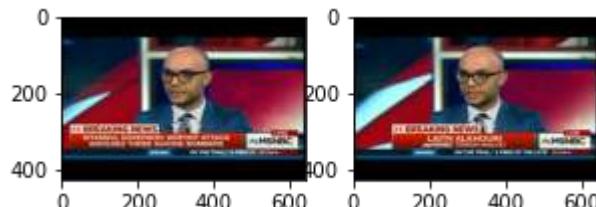
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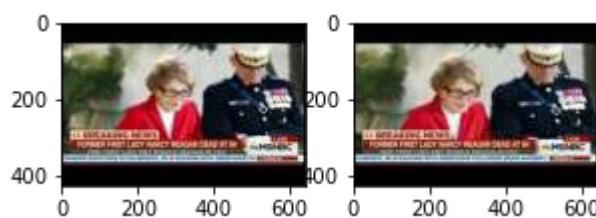
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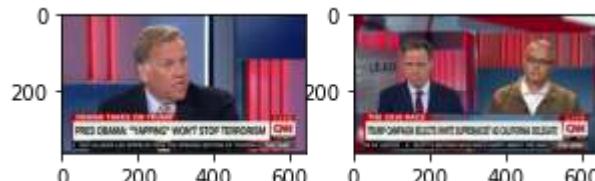
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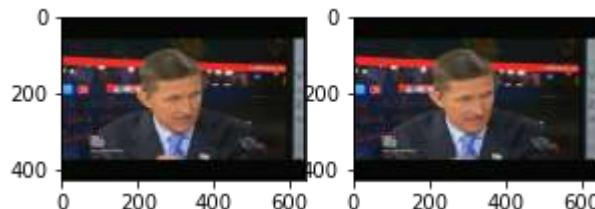
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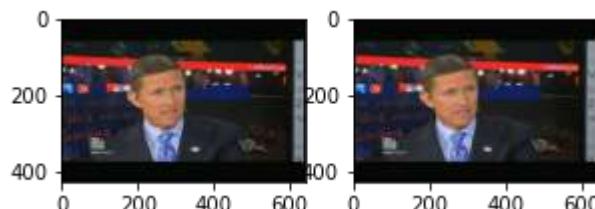
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CLUSTER--> 125 TOTAL IMAGES--> 2



CLUSTER--> 126 TOTAL IMAGES--> 2



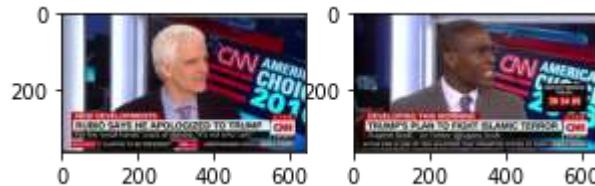
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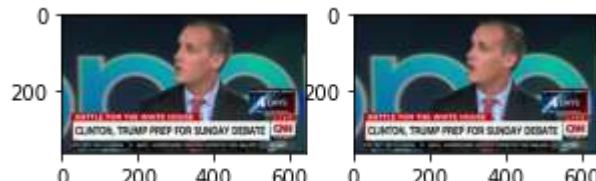
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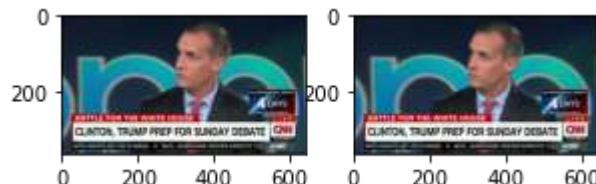
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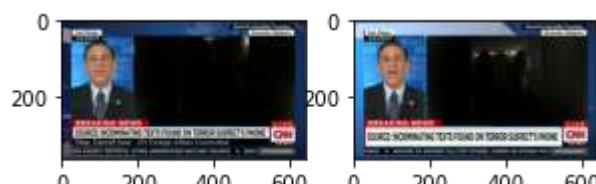
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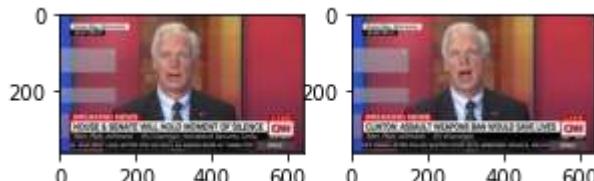
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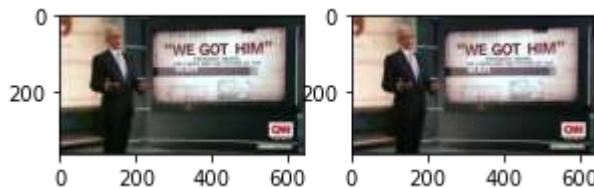
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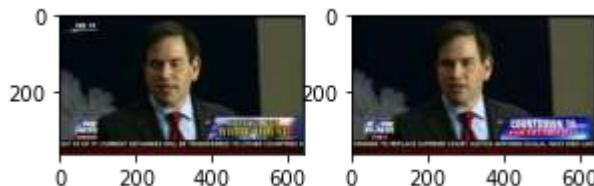
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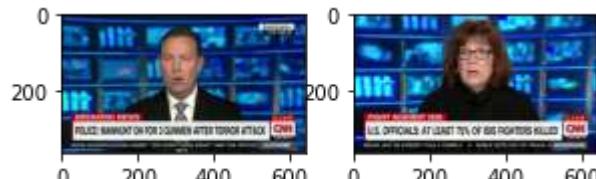
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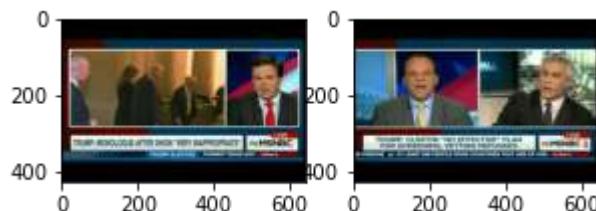
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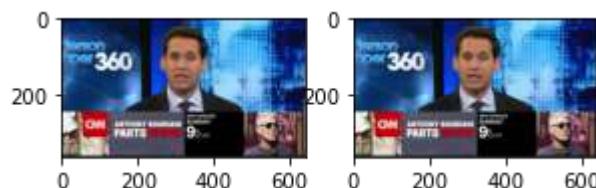
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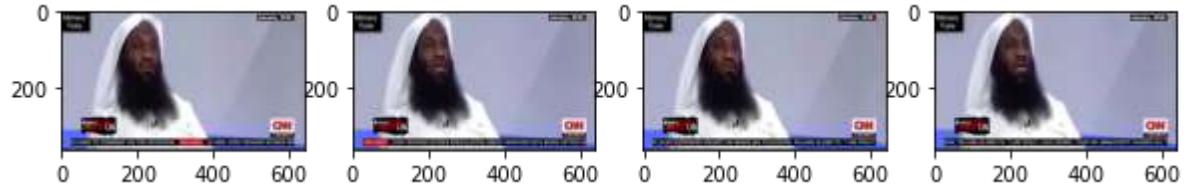
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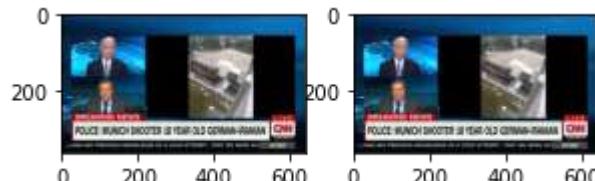
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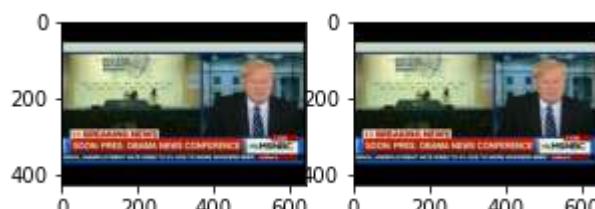
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CLUSTER--> 151 TOTAL IMAGES--> 3



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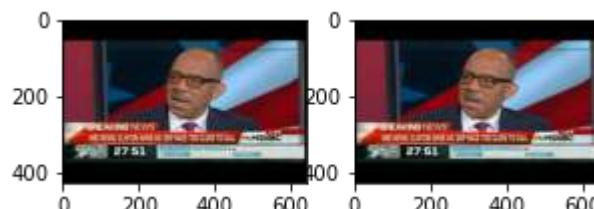
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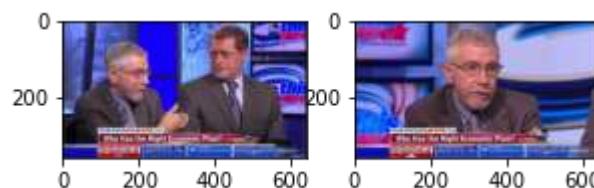
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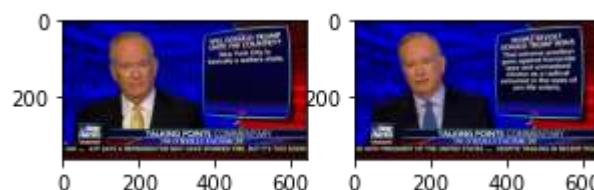
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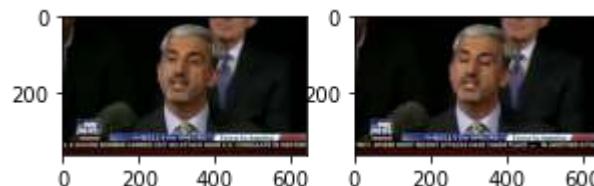
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CLUSTER--> 160 TOTAL IMAGES--> 3



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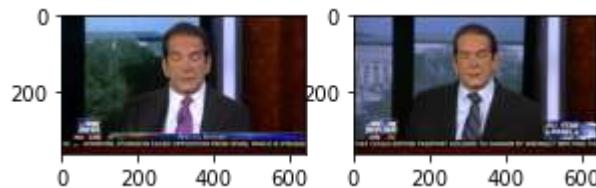
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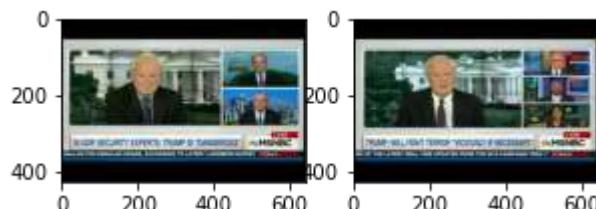
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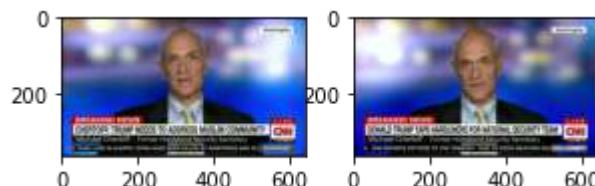
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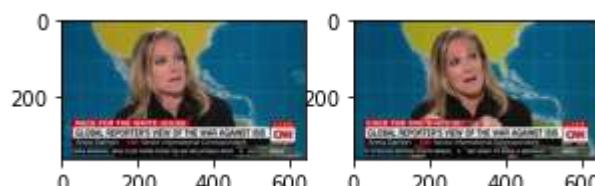
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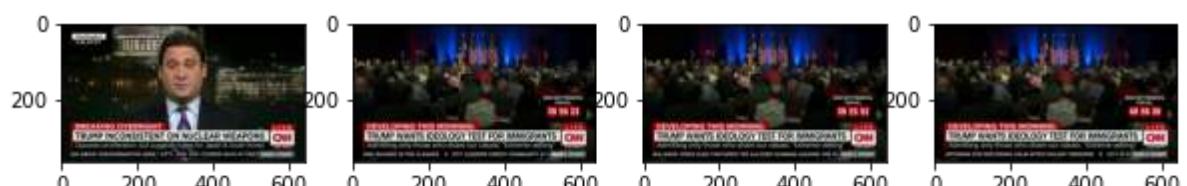
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CLUSTER--> 175 TOTAL IMAGES--> 4



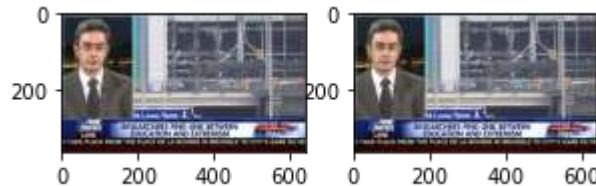
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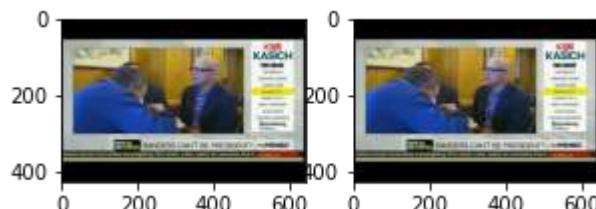
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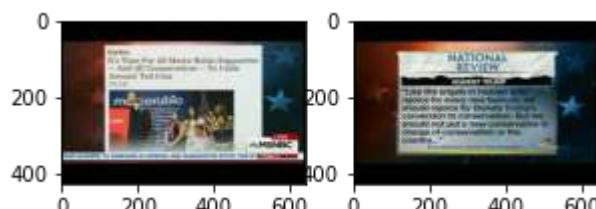
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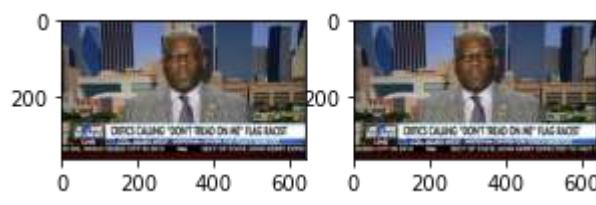
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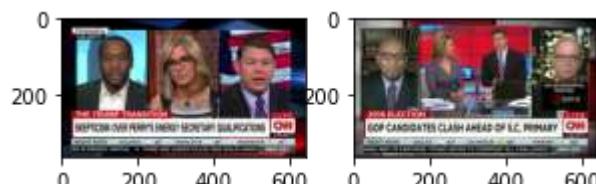
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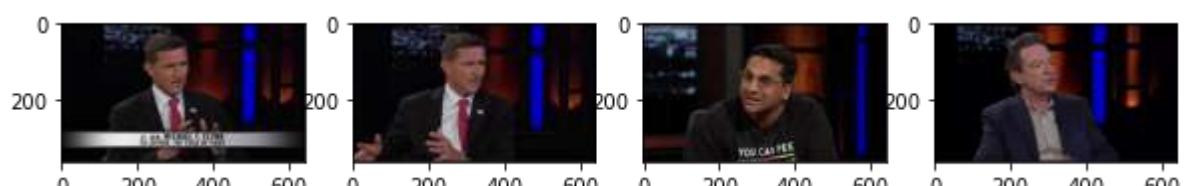
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CLUSTER--> 188 TOTAL IMAGES--> 4



CLUSTER--> 189 TOTAL IMAGES--> 2



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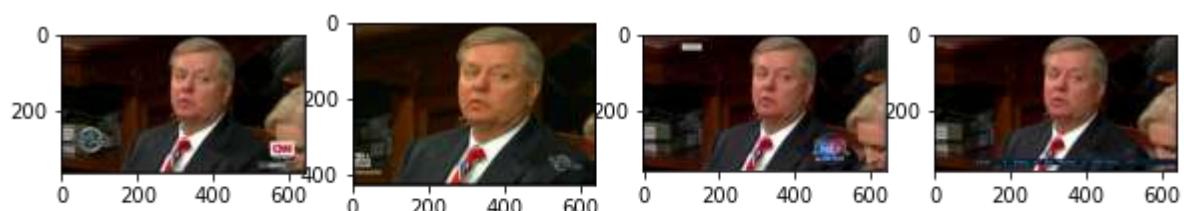
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CLUSTER--> 193 TOTAL IMAGES--> 5



CLUSTER--> 194 TOTAL IMAGES--> 2



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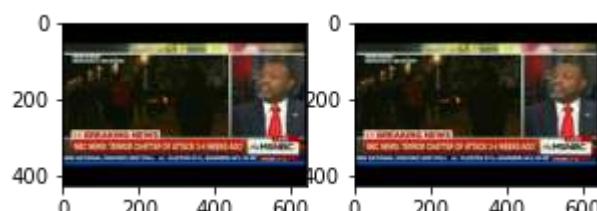
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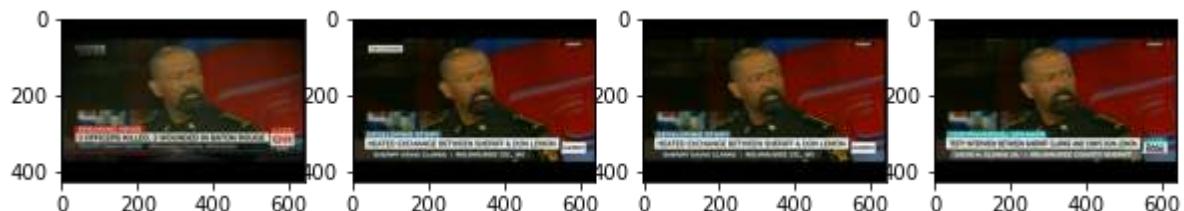
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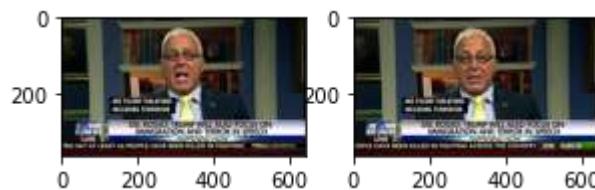
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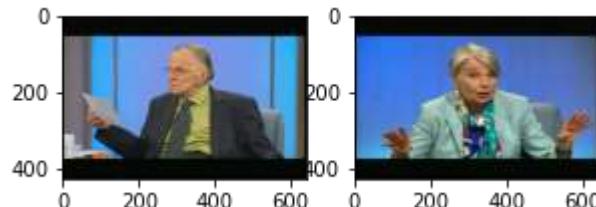
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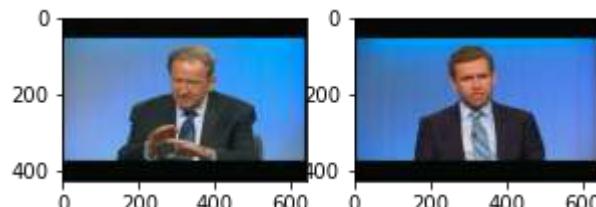
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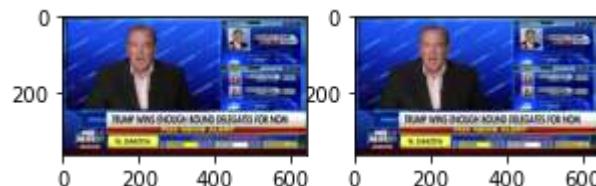
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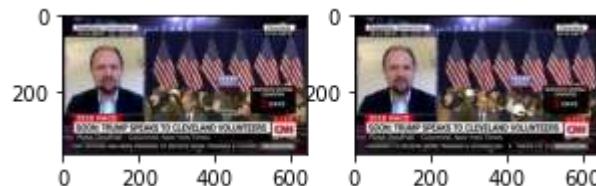
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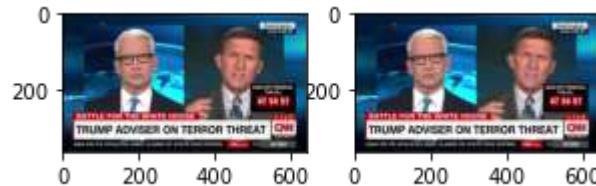
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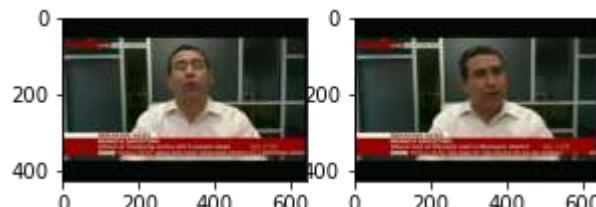
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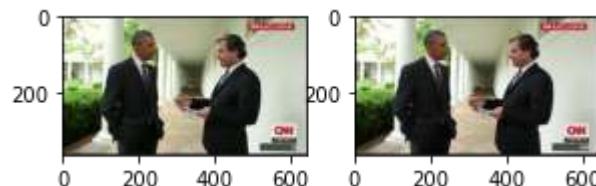
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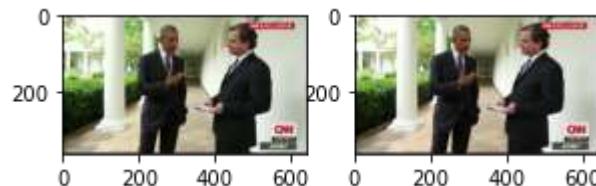
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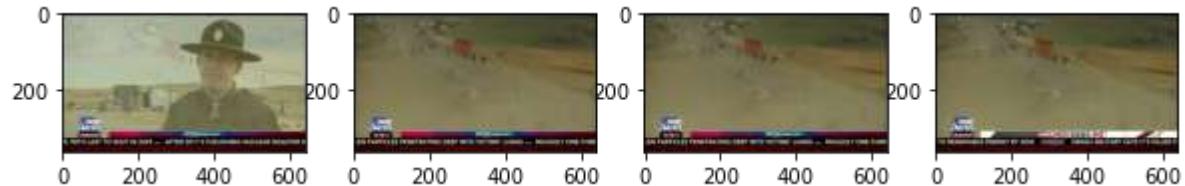
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CLUSTER--> 216 TOTAL IMAGES--> 2



CLUSTER--> 217 TOTAL IMAGES--> 4



CLUSTER--> 218 TOTAL IMAGES--> 2



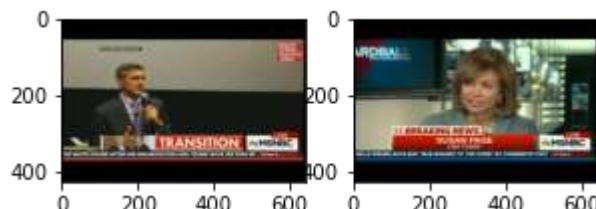
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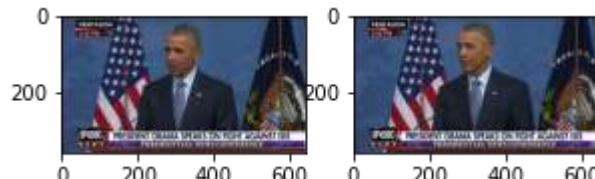
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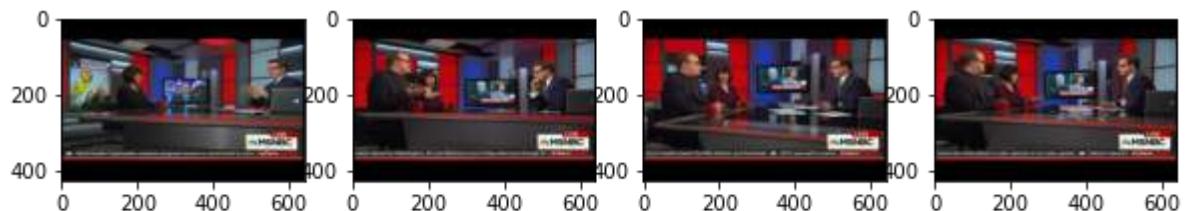
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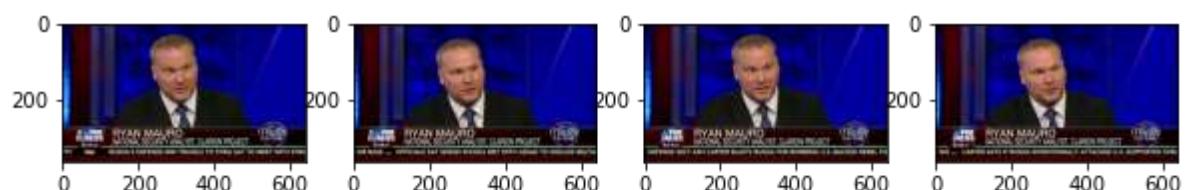
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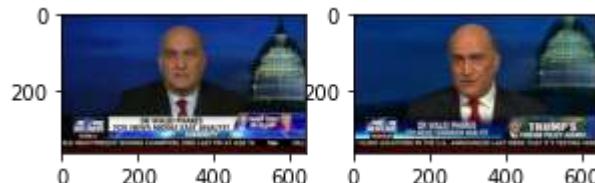
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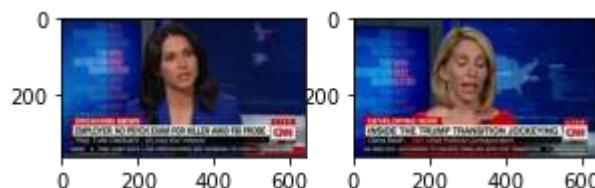
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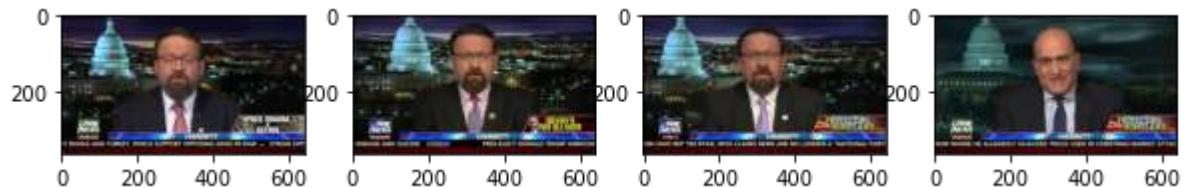
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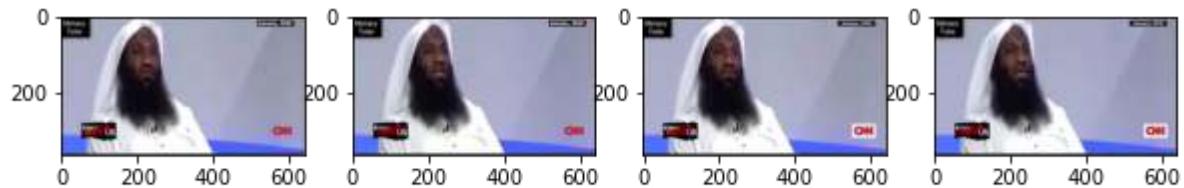
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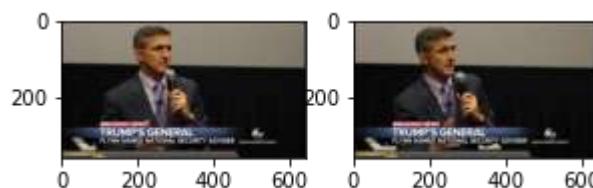
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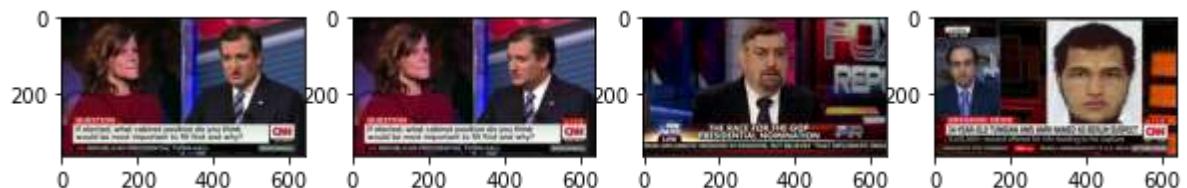
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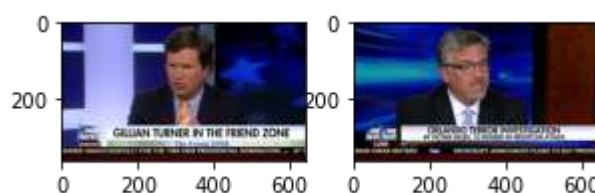
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CLUSTER--> 248 TOTAL IMAGES--> 3



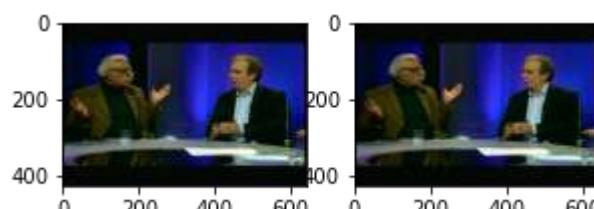
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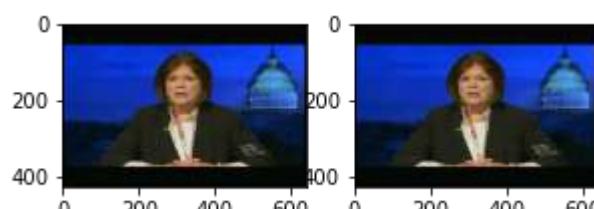
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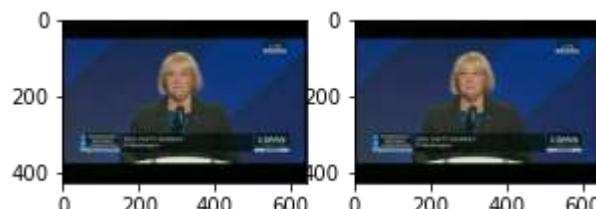
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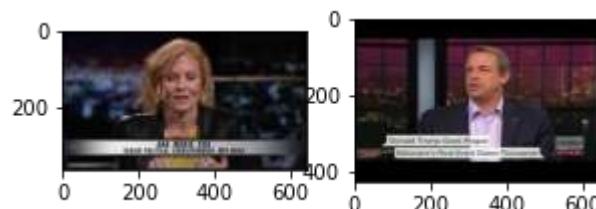
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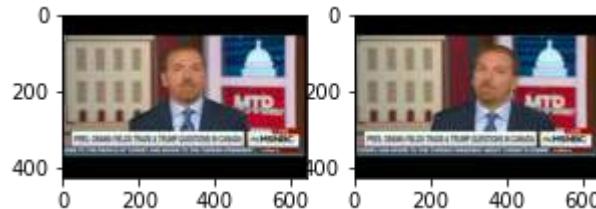
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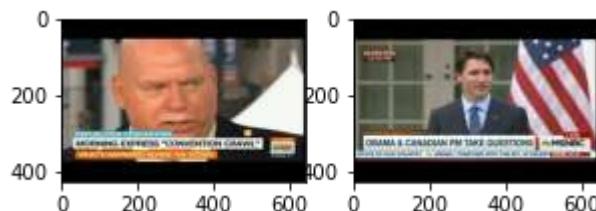
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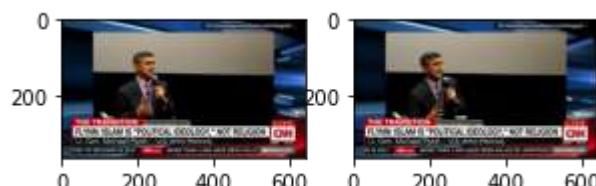
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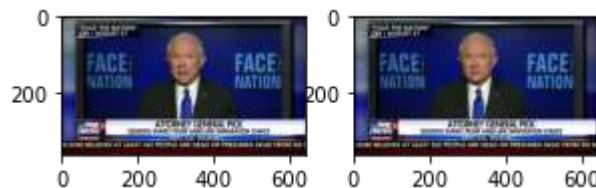
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CLUSTER--> 262 TOTAL IMAGES--> 5



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CLUSTER--> 264 TOTAL IMAGES--> 5



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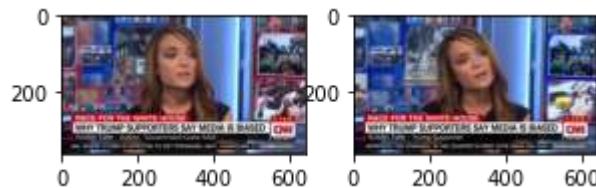
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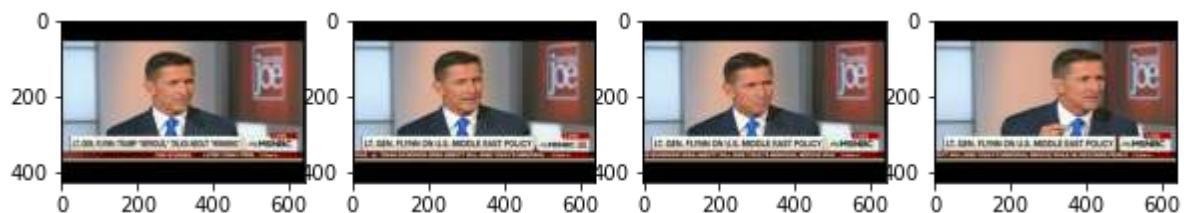
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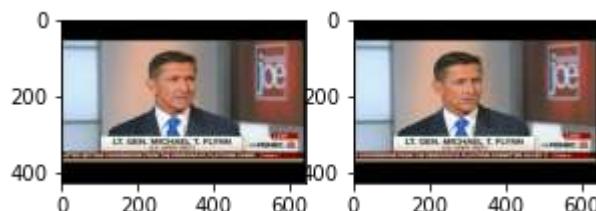
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CLUSTER--> 272 TOTAL IMAGES--> 2



CLUSTER--> 273 TOTAL IMAGES--> 2



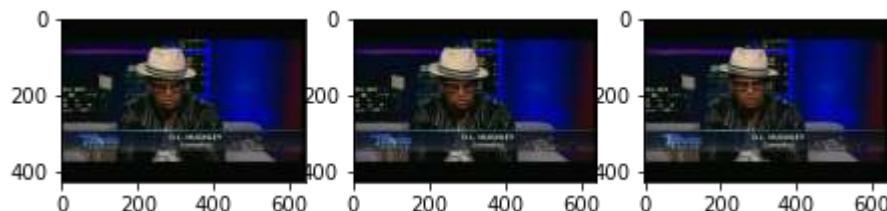
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CLUSTER--> 276 TOTAL IMAGES--> 3



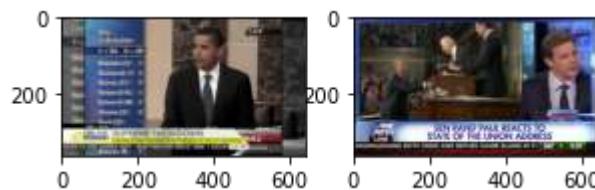
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CLUSTER--> 278 TOTAL IMAGES--> 2



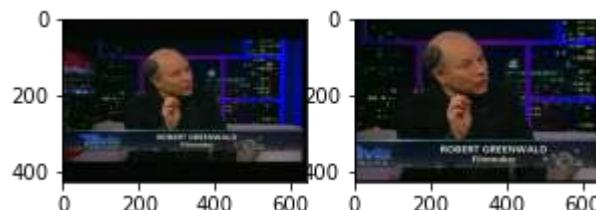
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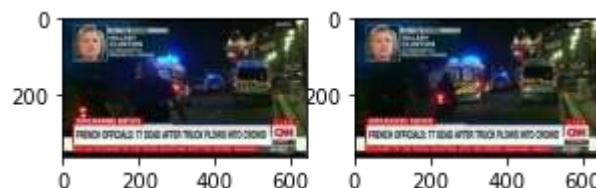
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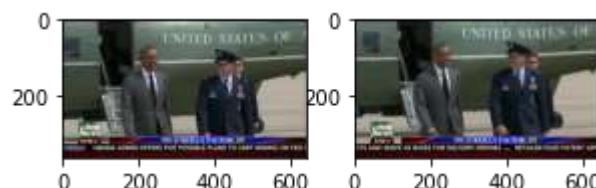
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CLUSTER--> 283 TOTAL IMAGES--> 2



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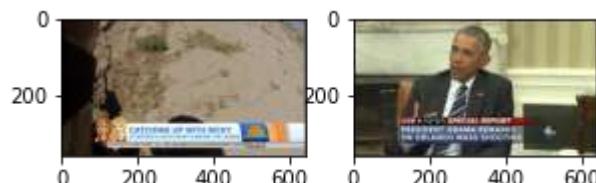
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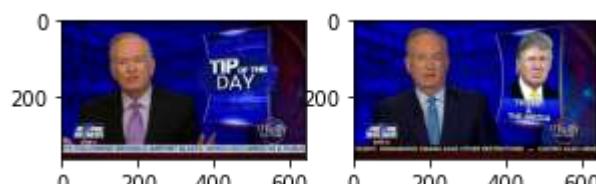
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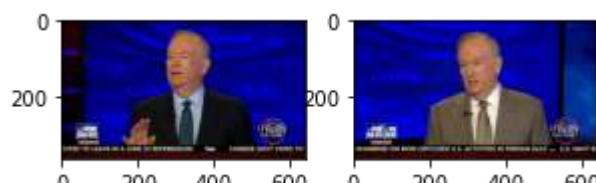
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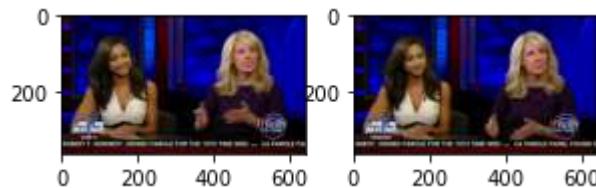
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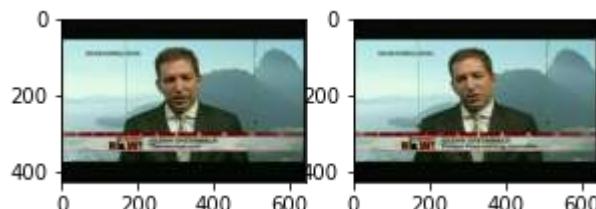
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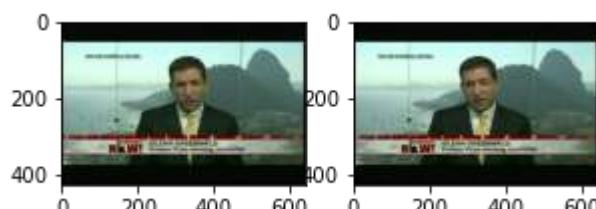
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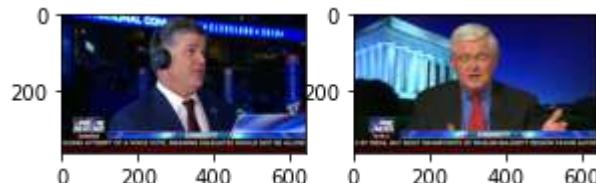
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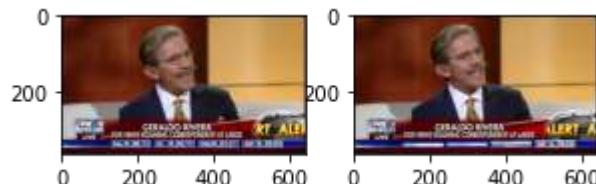
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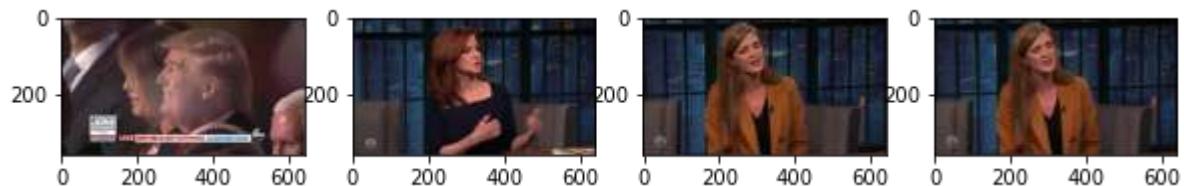
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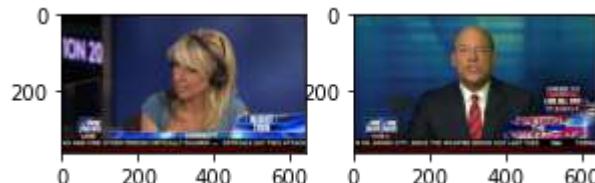
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CLUSTER--> 304 TOTAL IMAGES--> 3



CLUSTER--> 305 TOTAL IMAGES--> 2



CLUSTER--> 306 TOTAL IMAGES--> 3



CLUSTER--> 307 TOTAL IMAGES--> 2



CLUSTER--> 308 TOTAL IMAGES--> 2



CLUSTER--> 309 TOTAL IMAGES--> 3



CLUSTER--> 310 TOTAL IMAGES--> 3



CLUSTER--> 311 TOTAL IMAGES--> 2



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CLUSTER--> 313 TOTAL IMAGES--> 2



CLUSTER--> 314 TOTAL IMAGES--> 2



CLUSTER--> 315 TOTAL IMAGES--> 4



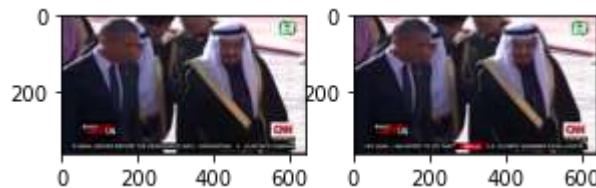
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CLUSTER--> 319 TOTAL IMAGES--> 3



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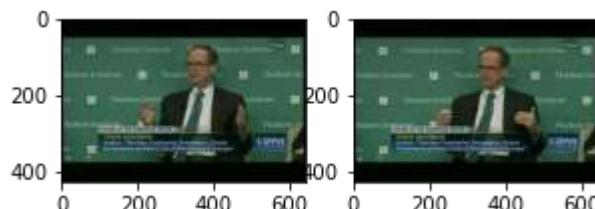
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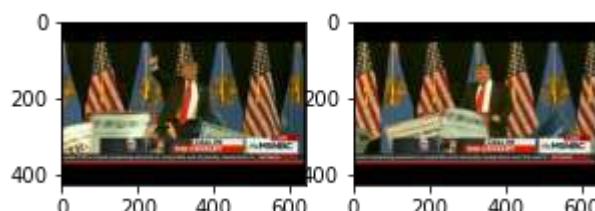
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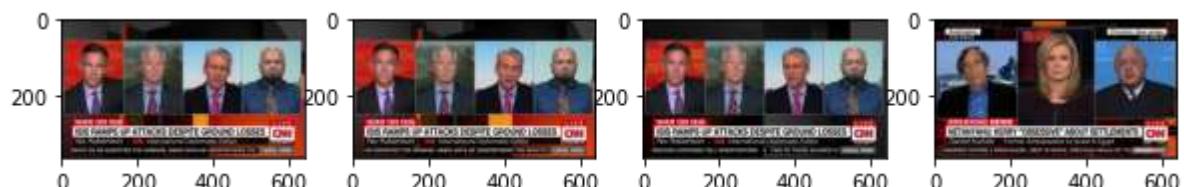
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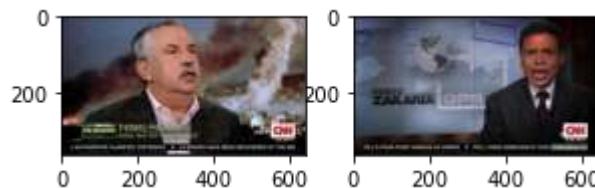
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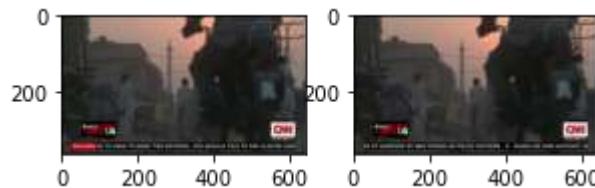
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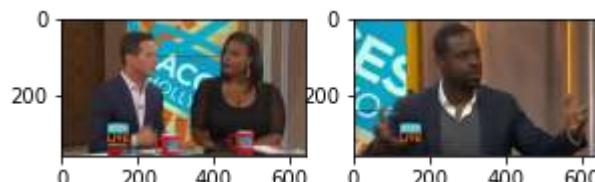
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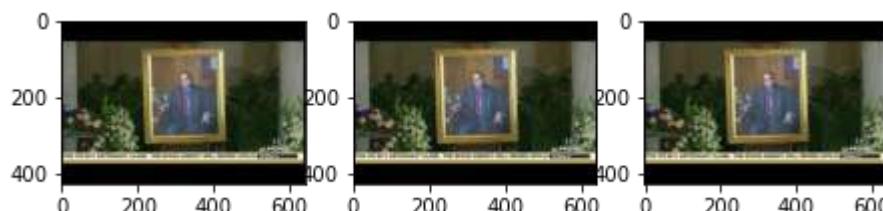
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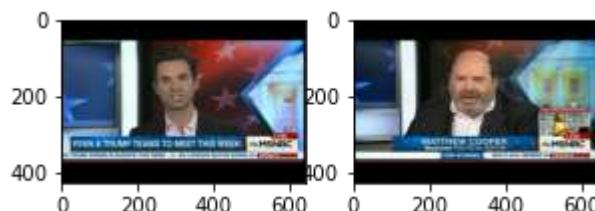
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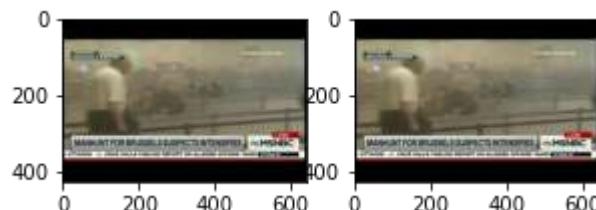
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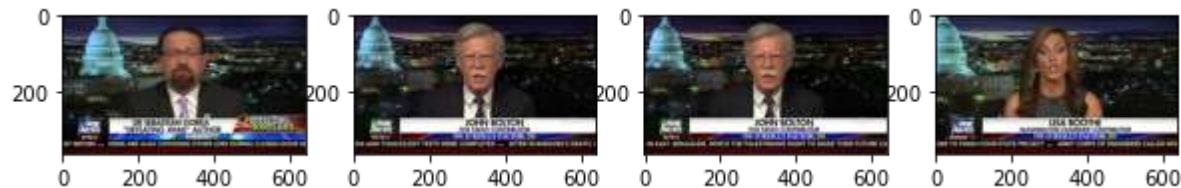
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CLUSTER--> 339 TOTAL IMAGES--> 4



CLUSTER--> 340 TOTAL IMAGES--> 2



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CLUSTER--> 343 TOTAL IMAGES--> 4



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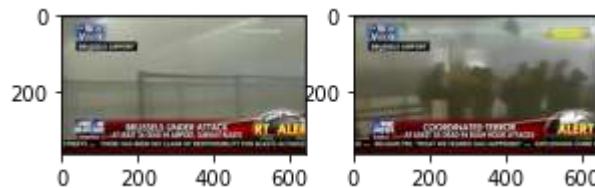
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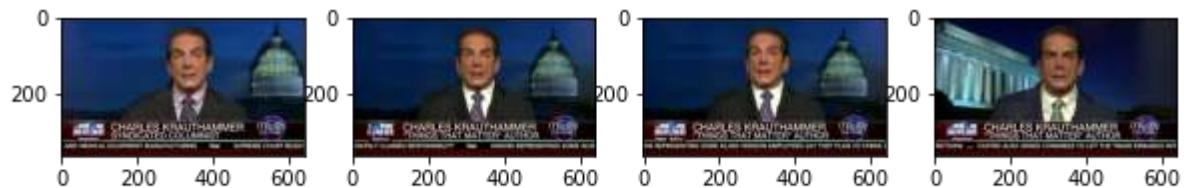
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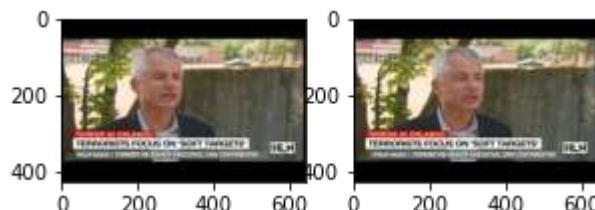
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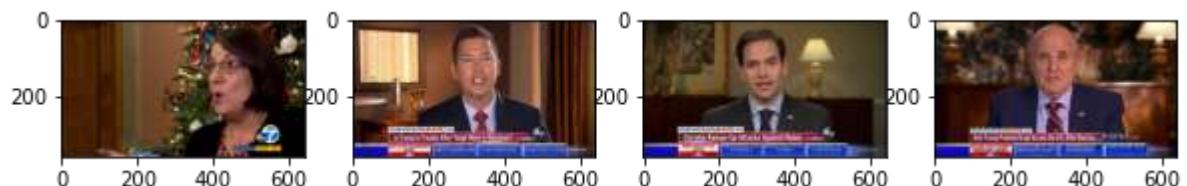
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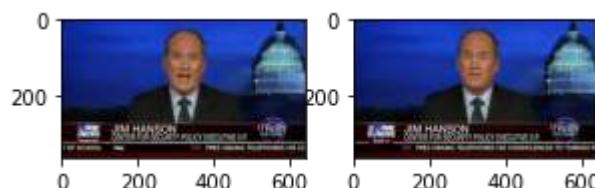
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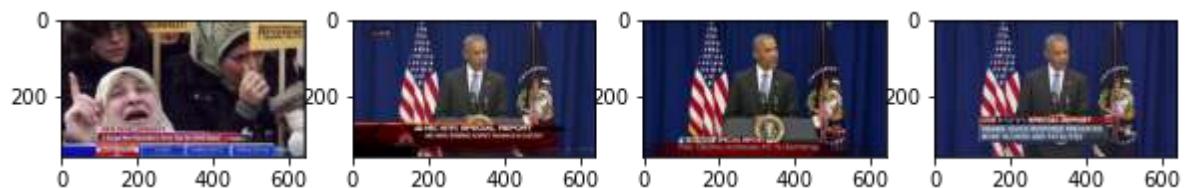
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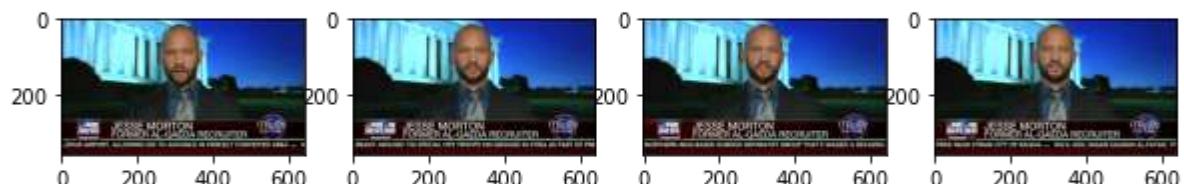
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CLUSTER--> 358 TOTAL IMAGES--> 10



CLUSTER--> 359 TOTAL IMAGES--> 2



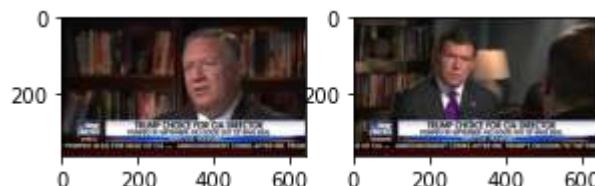
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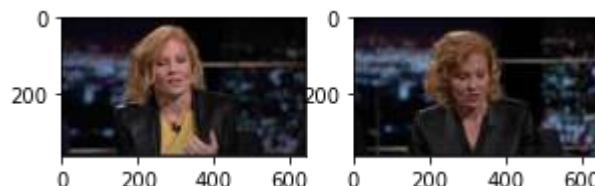
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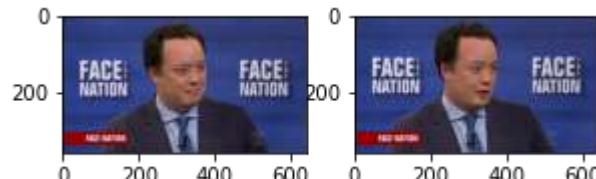
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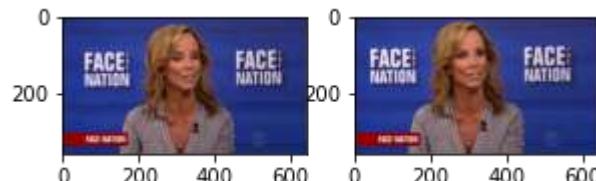
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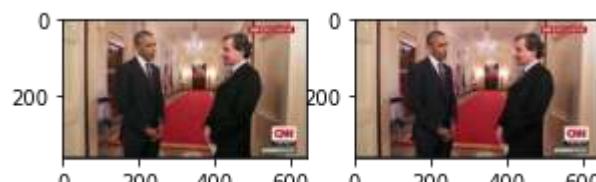
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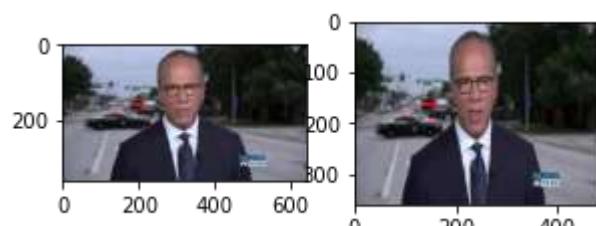
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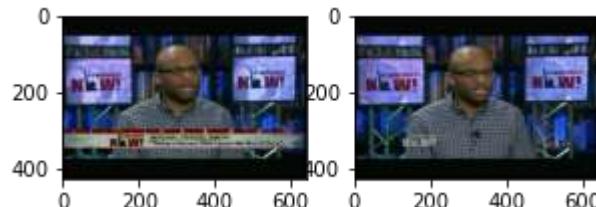
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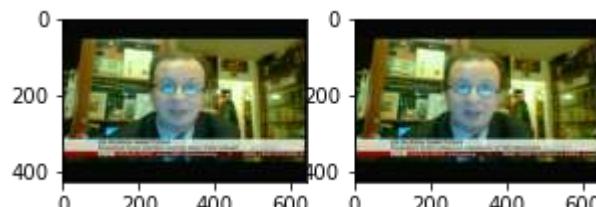
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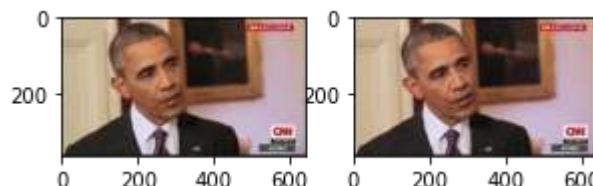
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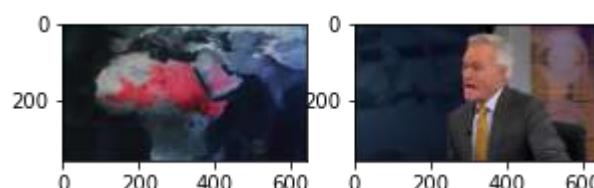
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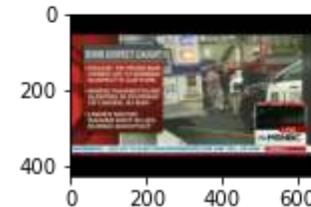
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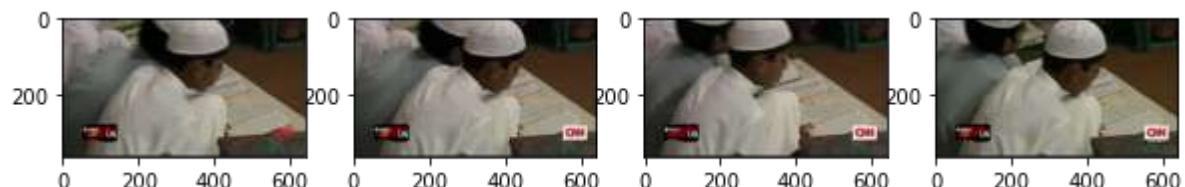
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CLUSTER--> 390 TOTAL IMAGES--> 5



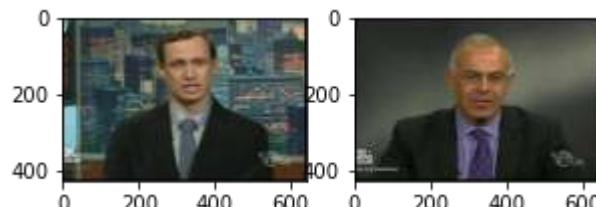
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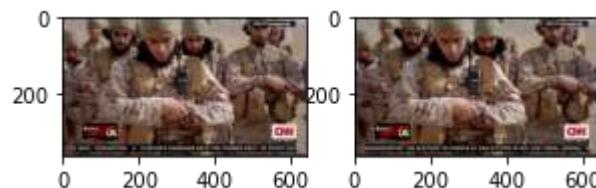
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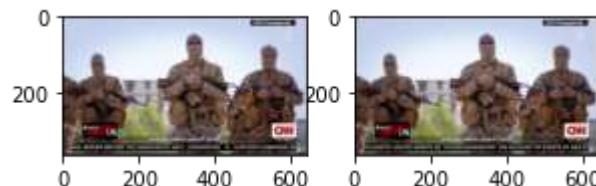
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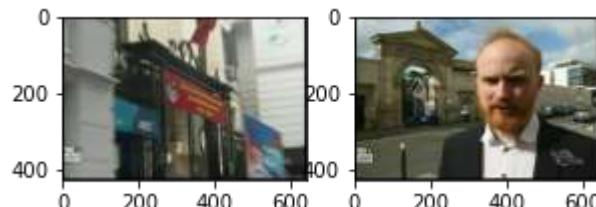
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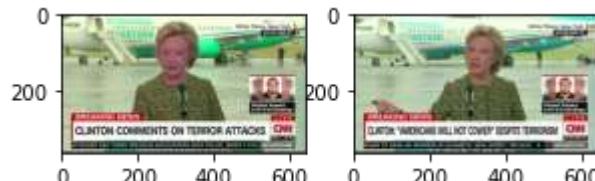
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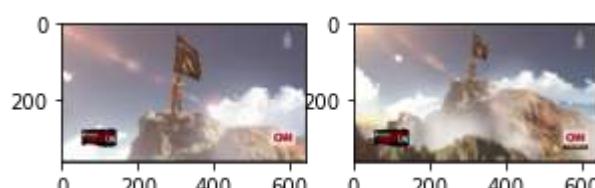
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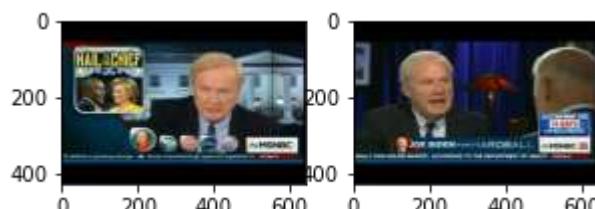
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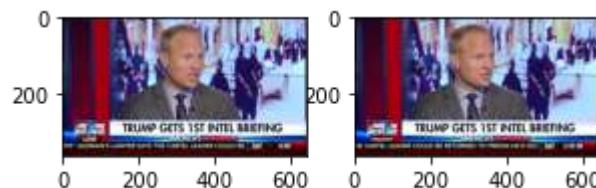
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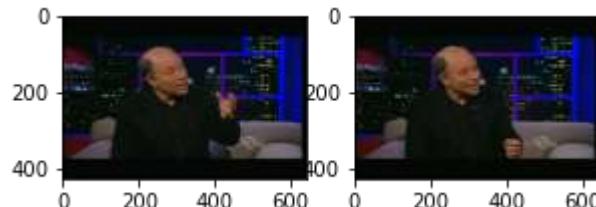
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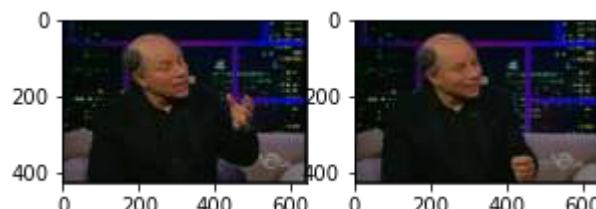
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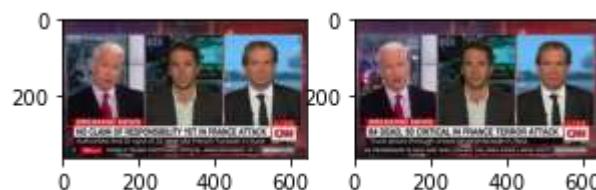
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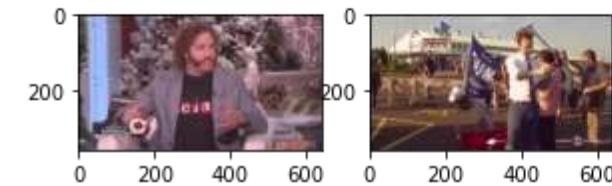
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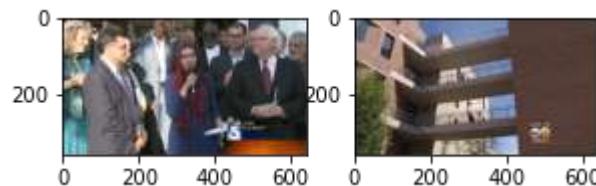
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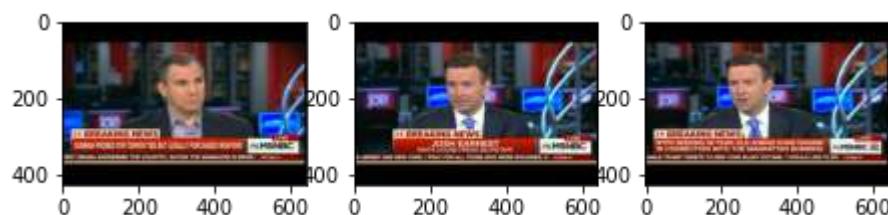
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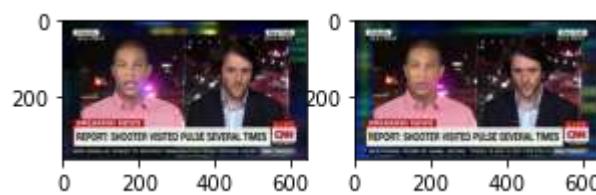
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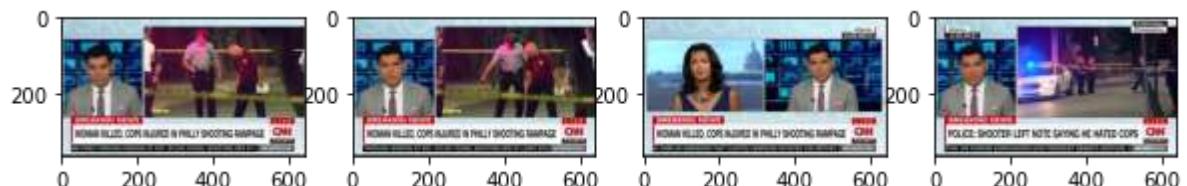
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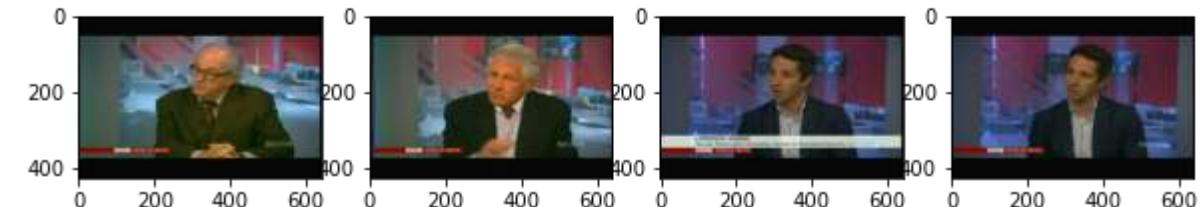
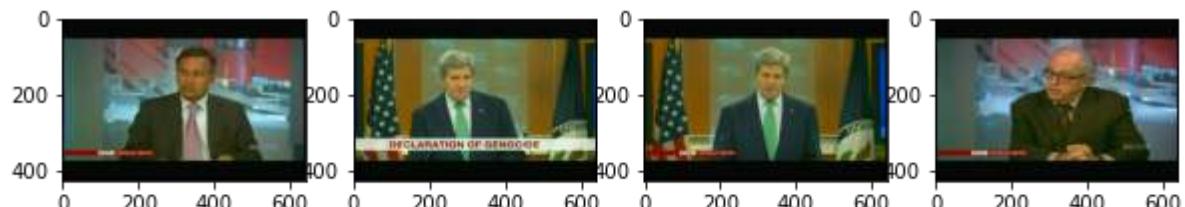
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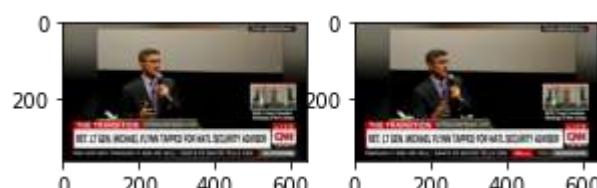
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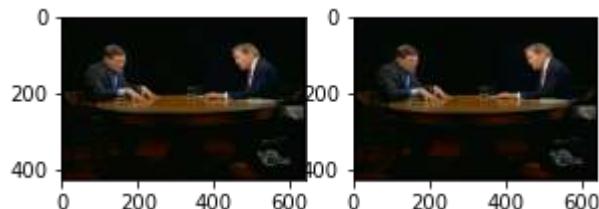
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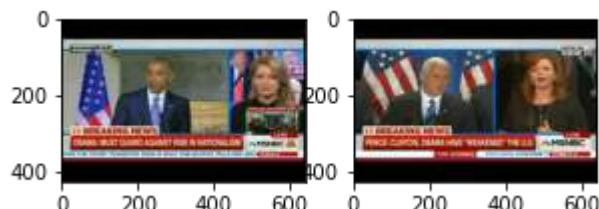
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CLUSTER--> 431 TOTAL IMAGES--> 2



CLUSTER--> 432 TOTAL IMAGES--> 4



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CLUSTER--> 435 TOTAL IMAGES--> 5



CLUSTER--> 436 TOTAL IMAGES--> 4



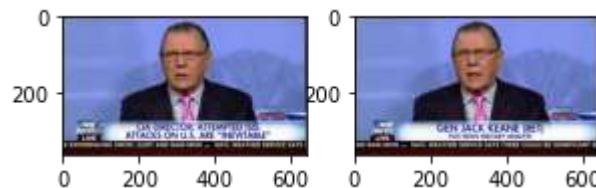
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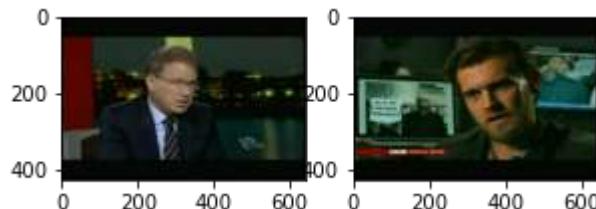
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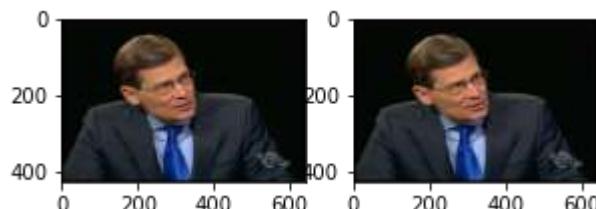
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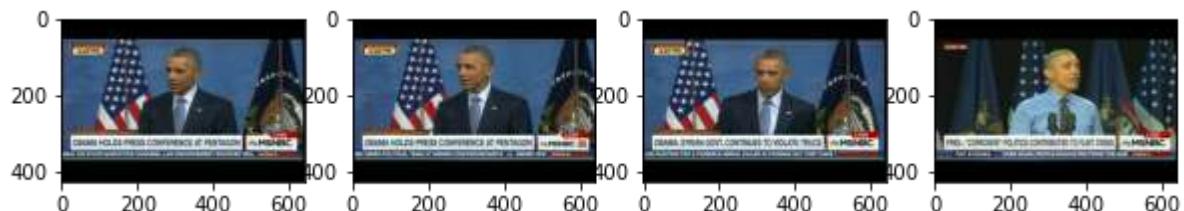
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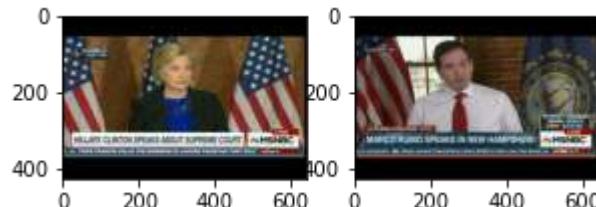
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CLUSTER--> 447 TOTAL IMAGES--> 3



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CLUSTER--> 449 TOTAL IMAGES--> 6



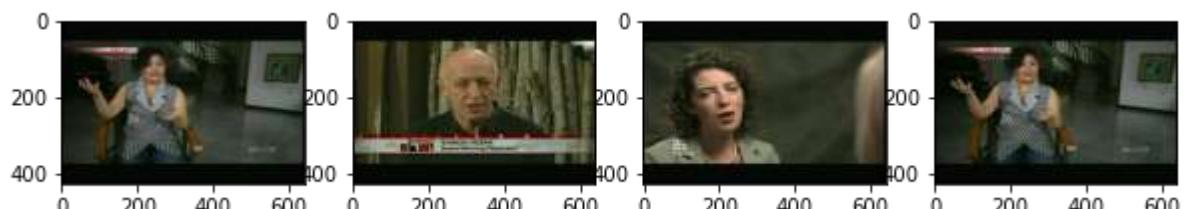
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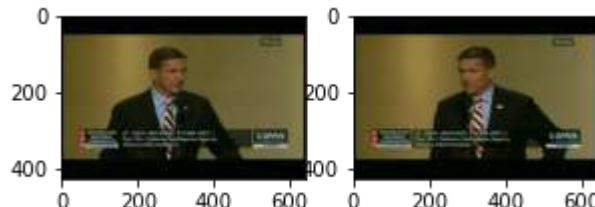
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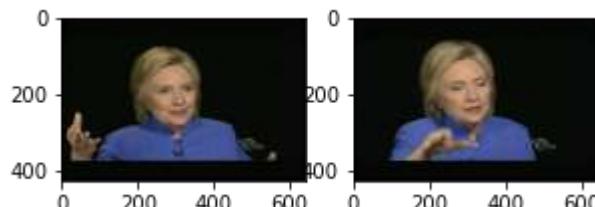
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CLUSTER--> 457 TOTAL IMAGES--> 2



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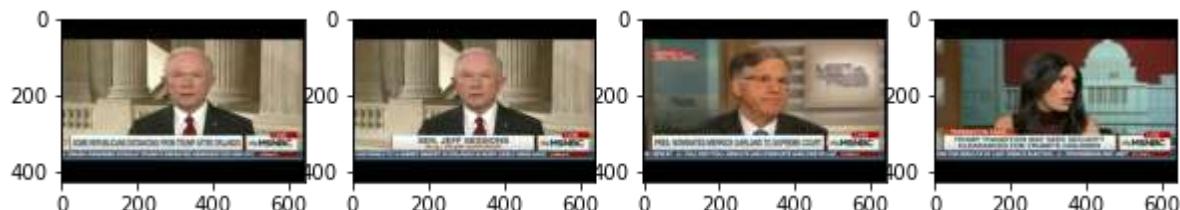
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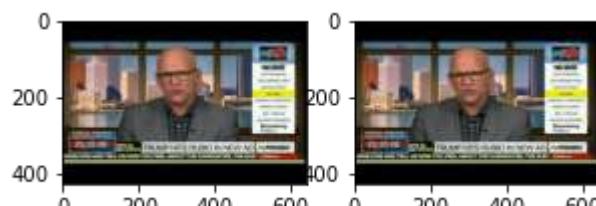
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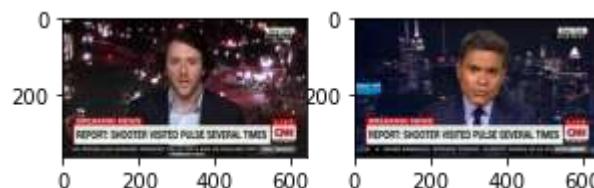
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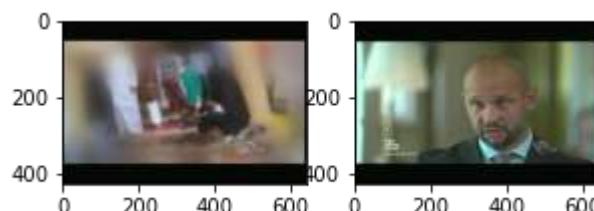
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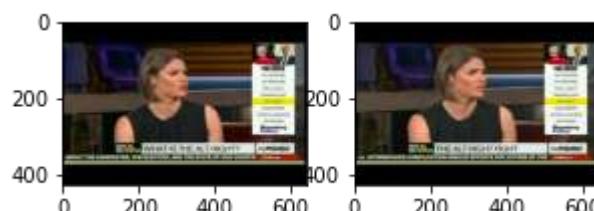
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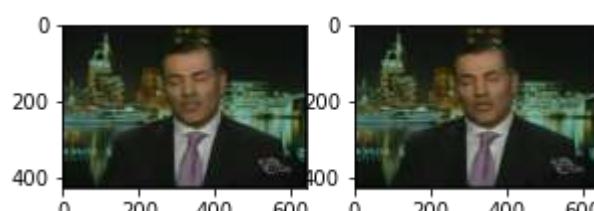
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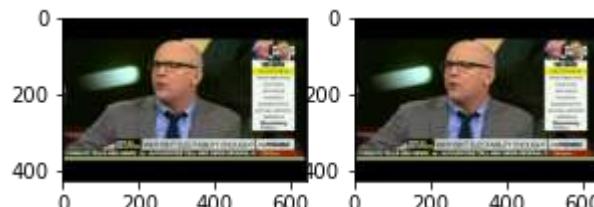
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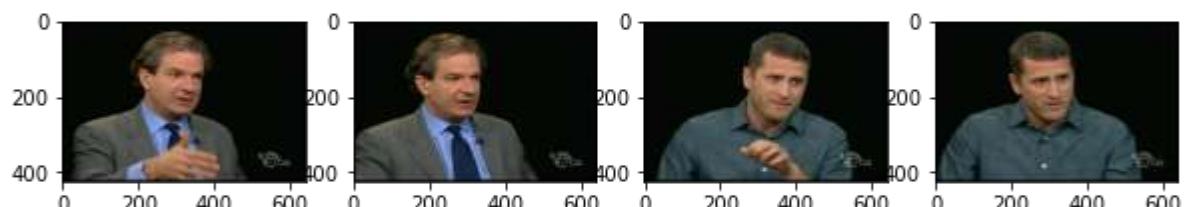
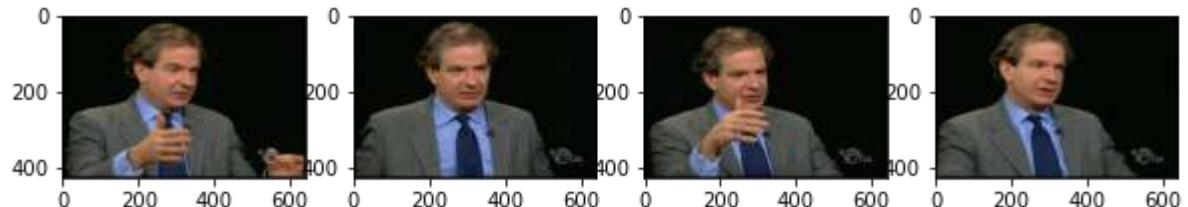
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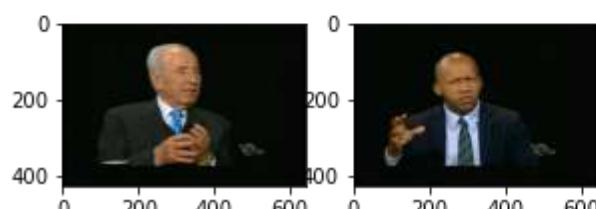
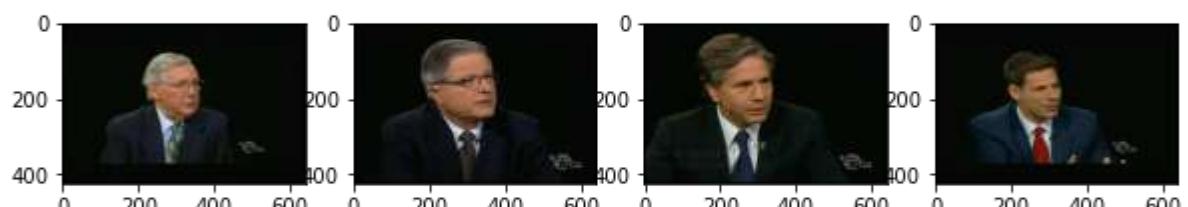
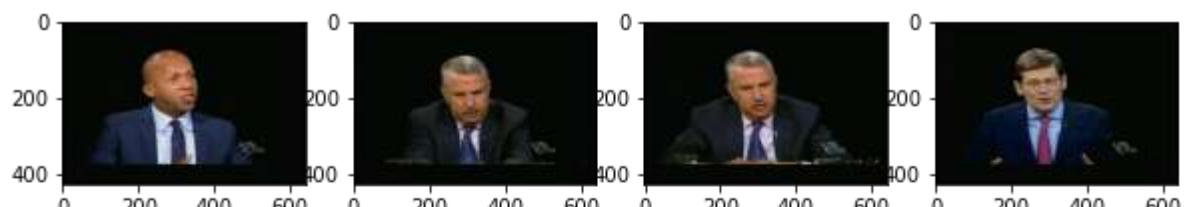
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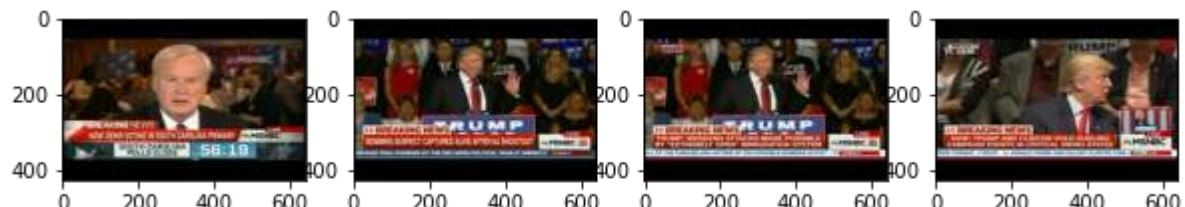
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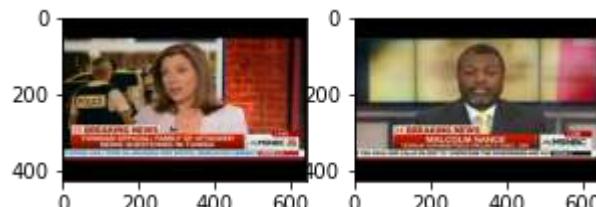
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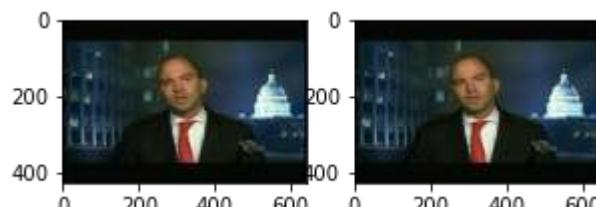
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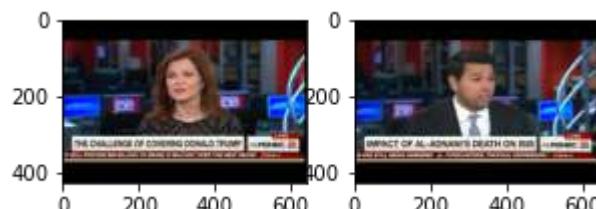
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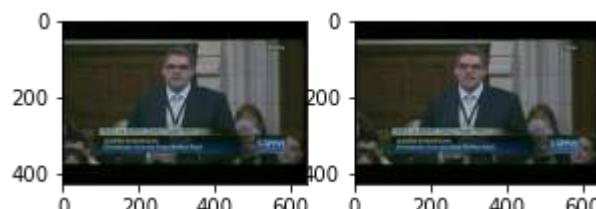
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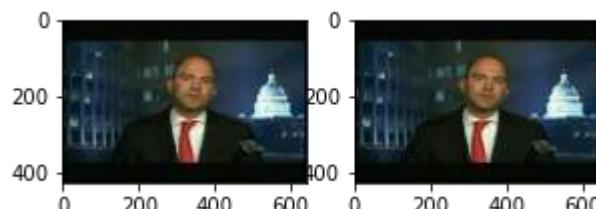
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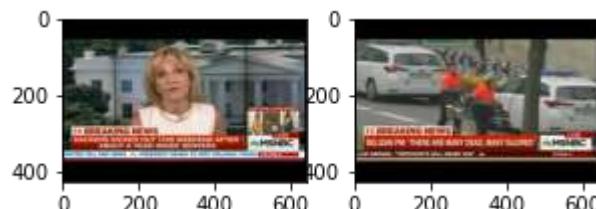
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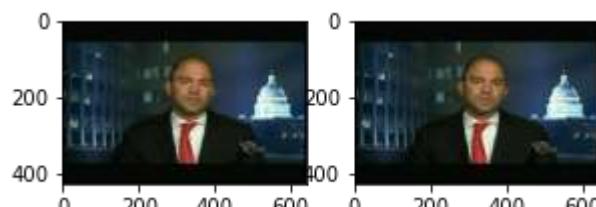
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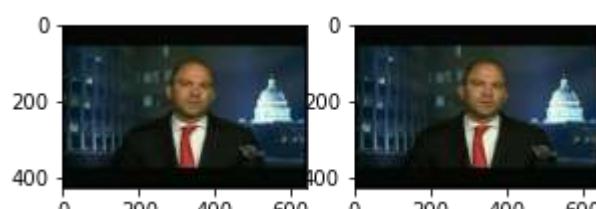
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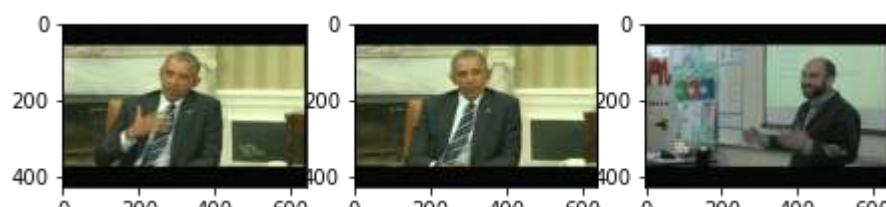
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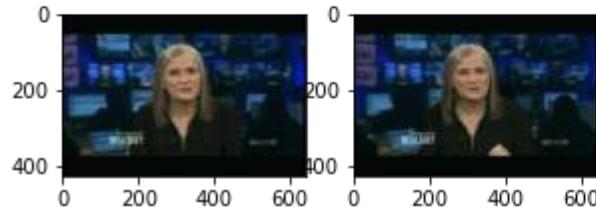
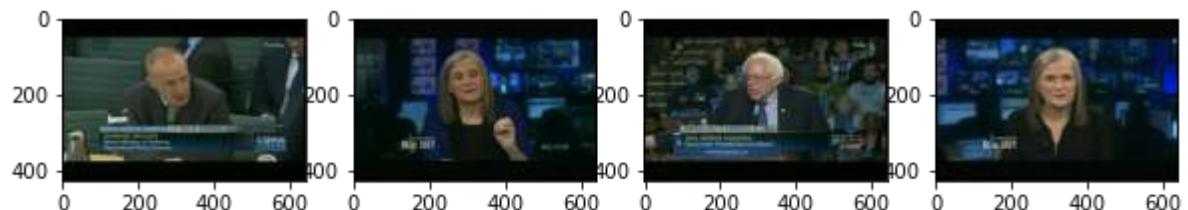
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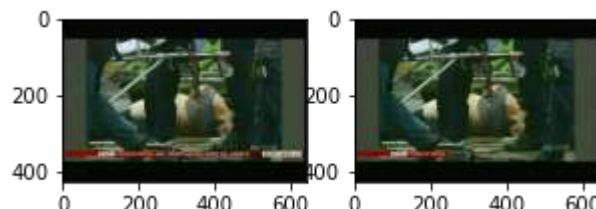
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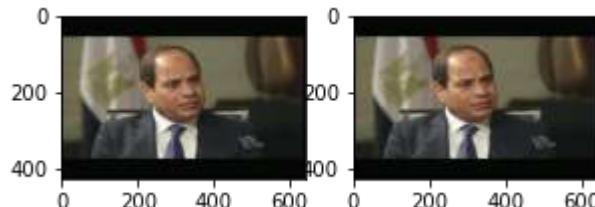
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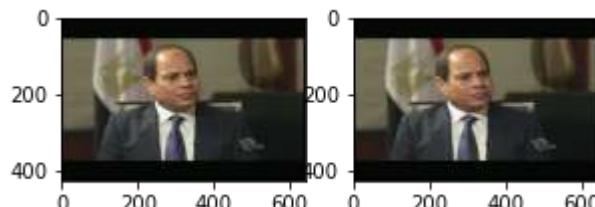
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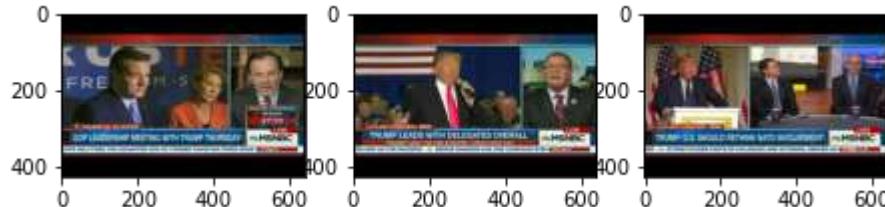
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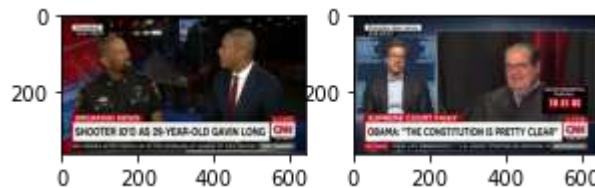
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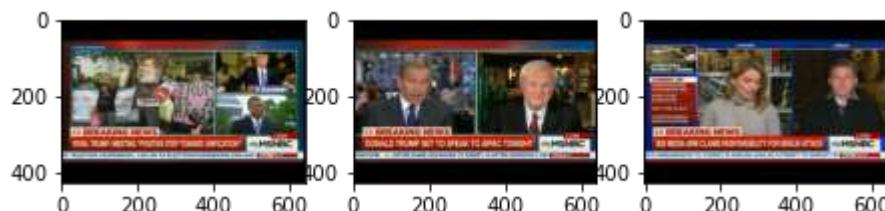
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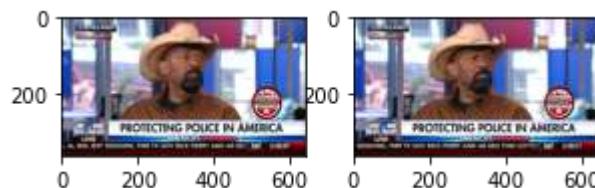
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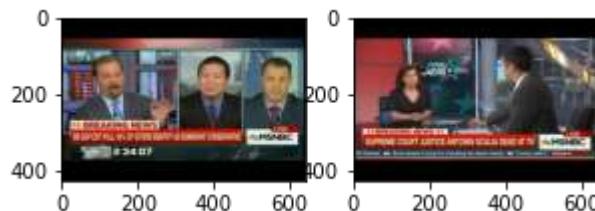
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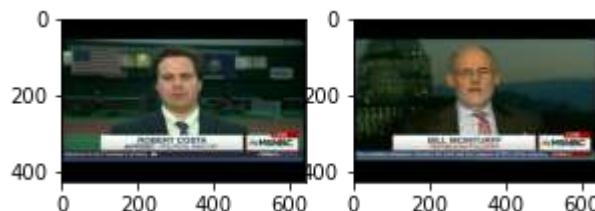
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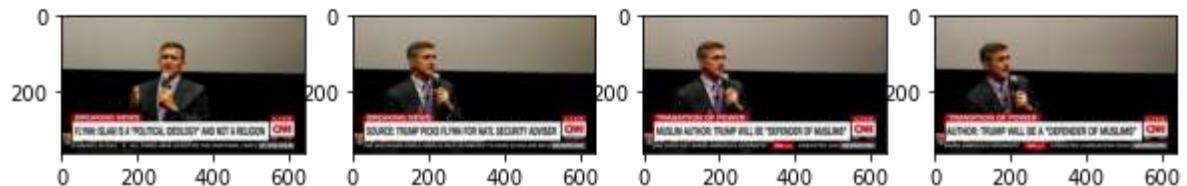
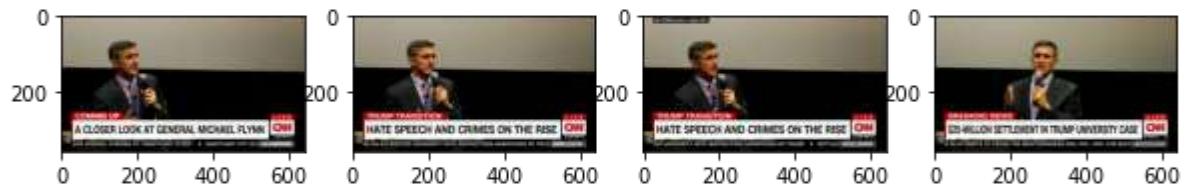
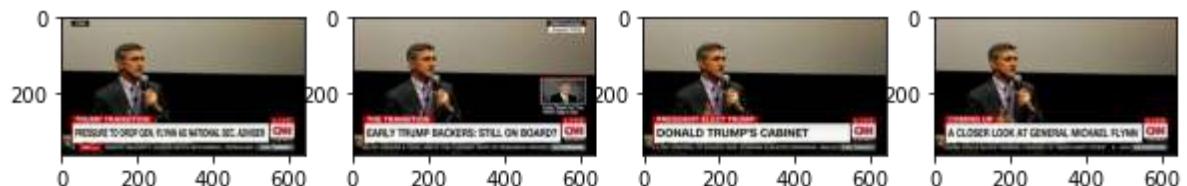
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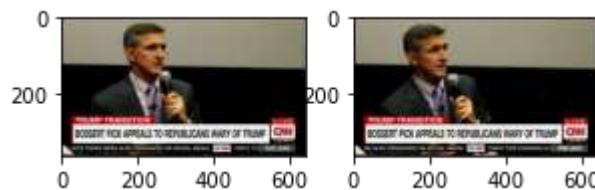
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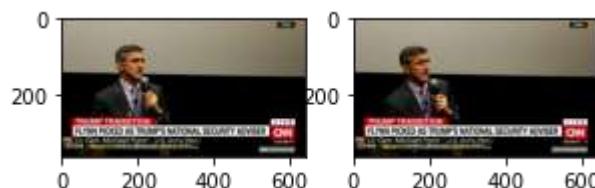
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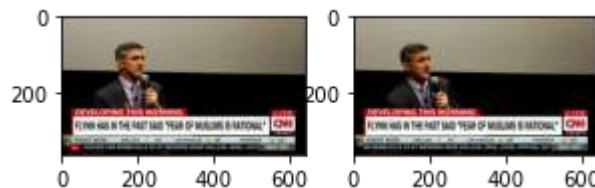
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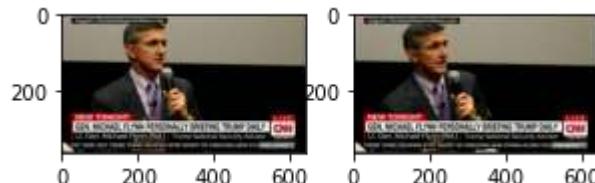
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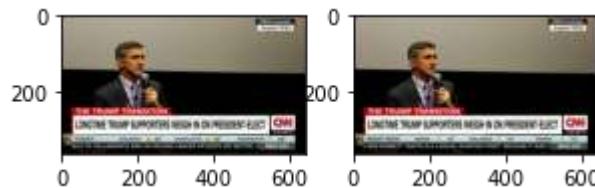
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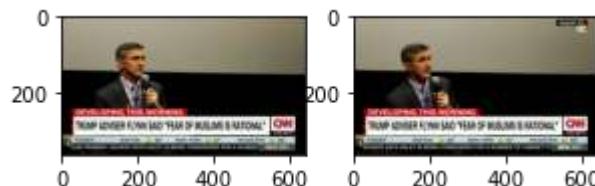
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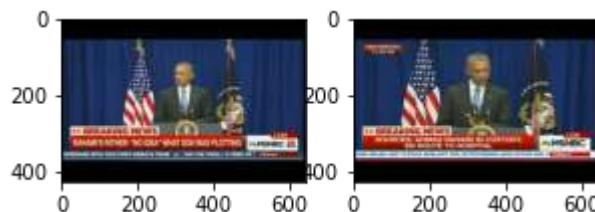
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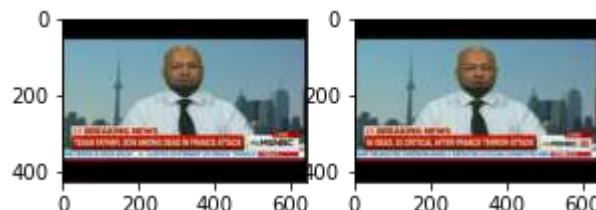
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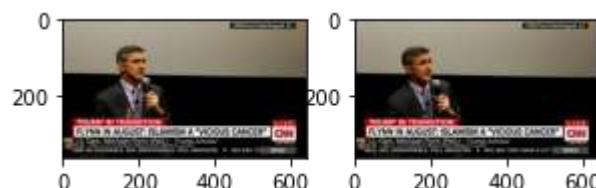
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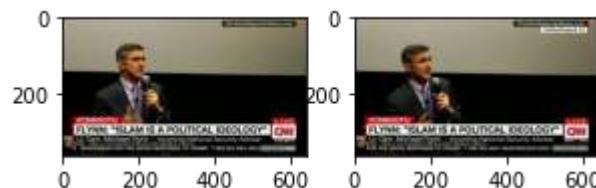
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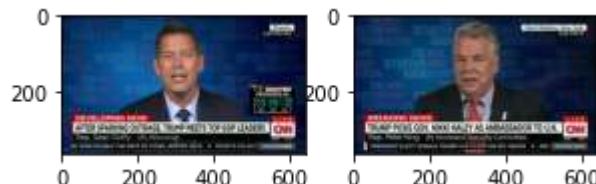
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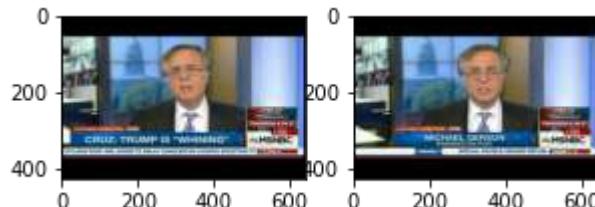
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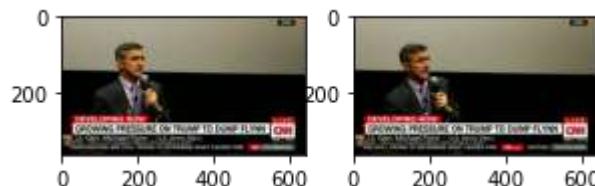
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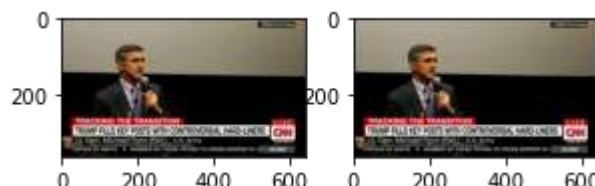
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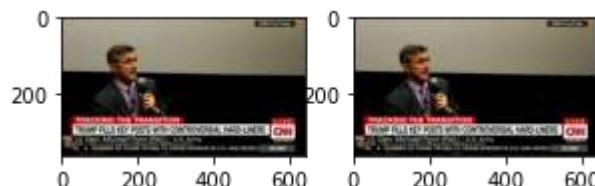
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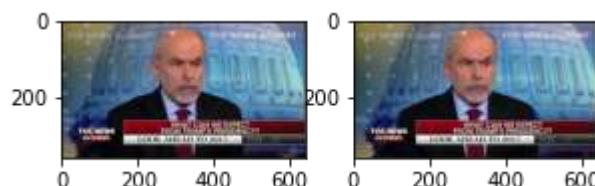
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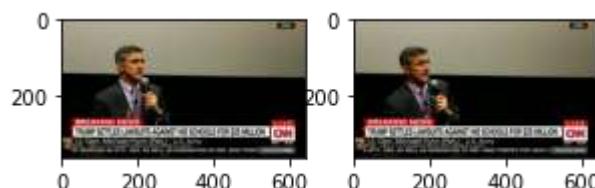
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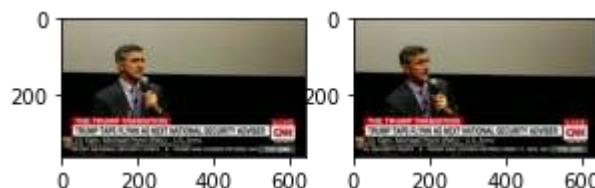
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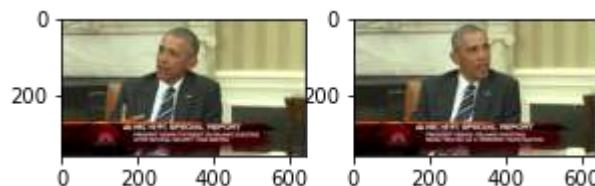
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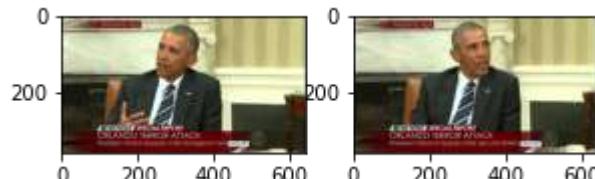
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CLUSTER--> 554 TOTAL IMAGES--> 2



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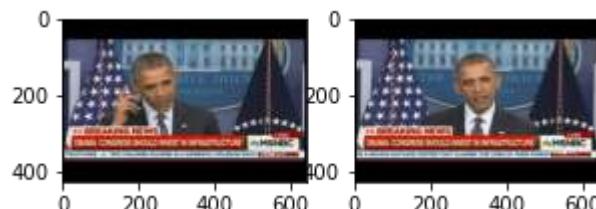
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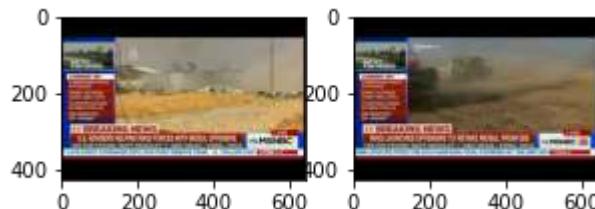
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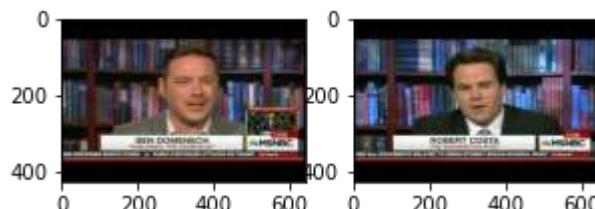
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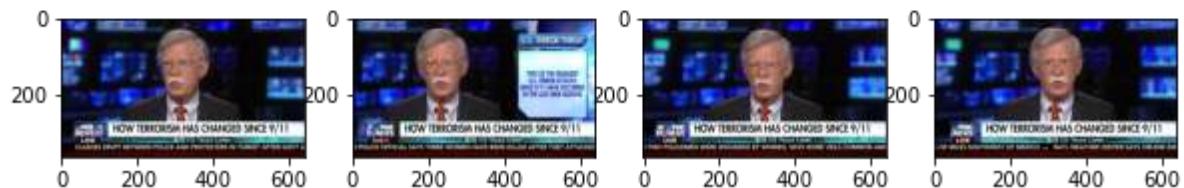
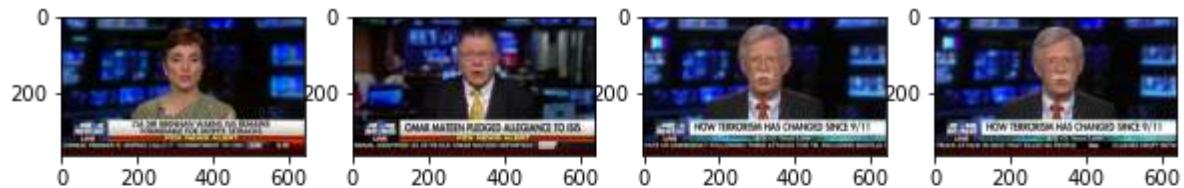
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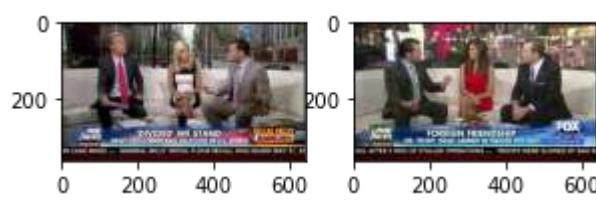
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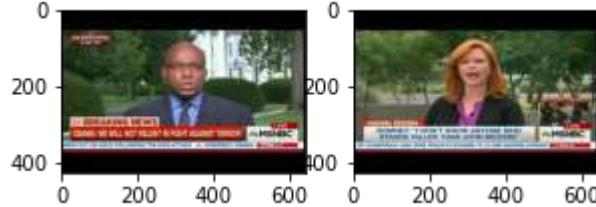
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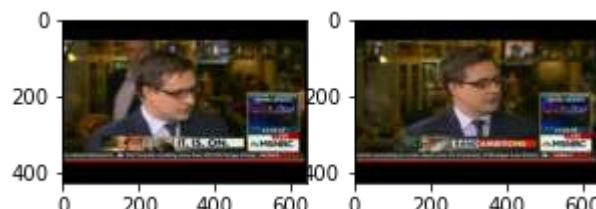
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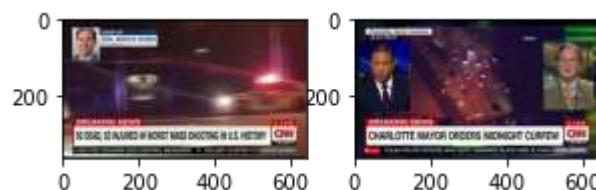
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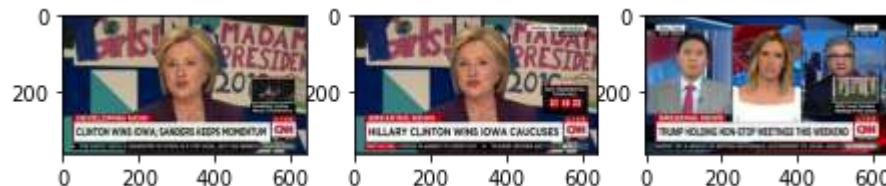
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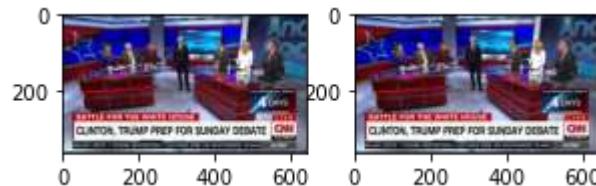
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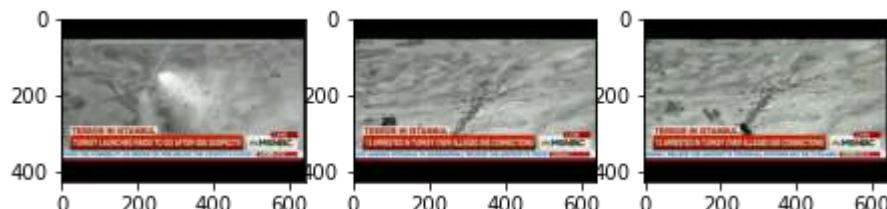
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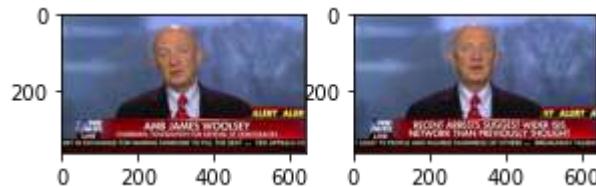
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CLUSTER--> 588 TOTAL IMAGES--> 5



CLUSTER--> 589 TOTAL IMAGES--> 2



CLUSTER--> 590 TOTAL IMAGES--> 3



CLUSTER--> 591 TOTAL IMAGES--> 2



CLUSTER--> 592 TOTAL IMAGES--> 3



CLUSTER--> 593 TOTAL IMAGES--> 4



CLUSTER--> 594 TOTAL IMAGES--> 2



CLUSTER--> 595 TOTAL IMAGES--> 3



CLUSTER--> 596 TOTAL IMAGES--> 5



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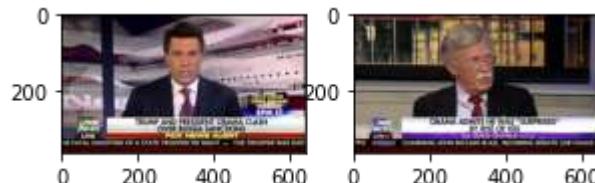
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CLUSTER--> 605 TOTAL IMAGES--> 5



CLUSTER--> 606 TOTAL IMAGES--> 2



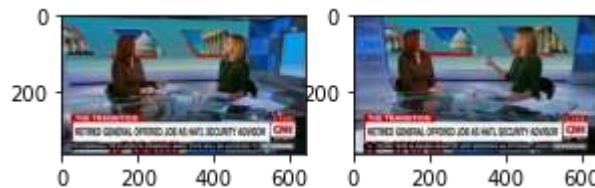
CLUSTER--> 607 TOTAL IMAGES--> 3



CLUSTER--> 608 TOTAL IMAGES--> 2



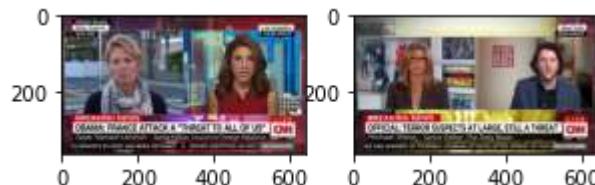
CLUSTER--> 609 TOTAL IMAGES--> 2



CLUSTER--> 610 TOTAL IMAGES--> 5



CLUSTER--> 611 TOTAL IMAGES--> 2



CLUSTER--> 612 TOTAL IMAGES--> 2



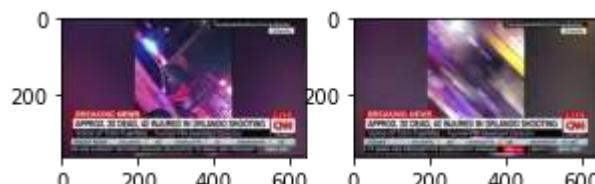
CLUSTER--> 613 TOTAL IMAGES--> 2



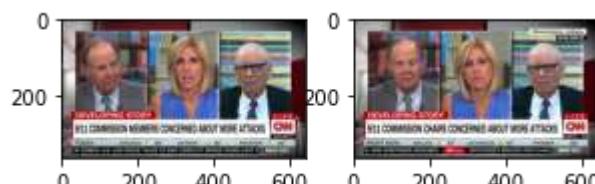
CLUSTER--> 614 TOTAL IMAGES--> 2



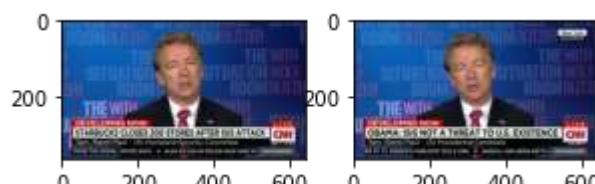
CLUSTER--> 615 TOTAL IMAGES--> 2



CLUSTER--> 616 TOTAL IMAGES--> 2



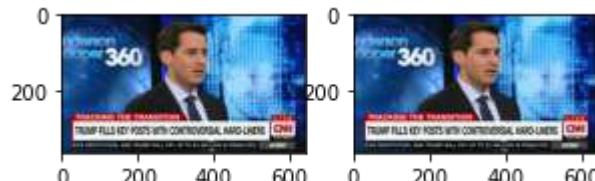
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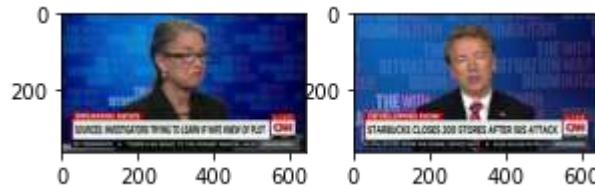
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CLUSTER--> 619 TOTAL IMAGES--> 2



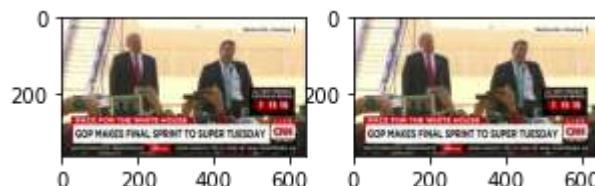
CLUSTER--> 620 TOTAL IMAGES--> 2



CLUSTER--> 621 TOTAL IMAGES--> 3



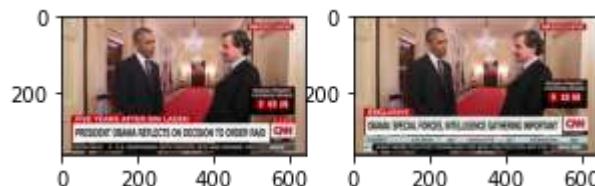
CLUSTER--> 622 TOTAL IMAGES--> 2



CLUSTER--> 623 TOTAL IMAGES--> 4



CLUSTER--> 624 TOTAL IMAGES--> 2



CLUSTER--> 625 TOTAL IMAGES--> 3



CLUSTER--> 626 TOTAL IMAGES--> 2



CLUSTER--> 627 TOTAL IMAGES--> 3



CLUSTER--> 628 TOTAL IMAGES--> 2



CLUSTER--> 629 TOTAL IMAGES--> 3



CLUSTER--> 630 TOTAL IMAGES--> 5



CLUSTER--> 631 TOTAL IMAGES--> 2



CLUSTER--> 632 TOTAL IMAGES--> 2



CLUSTER--> 633 TOTAL IMAGES--> 4



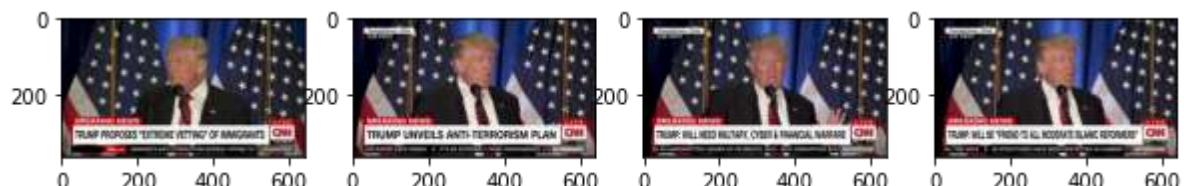
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CLUSTER--> 635 TOTAL IMAGES--> 6



CLUSTER--> 636 TOTAL IMAGES--> 4



CLUSTER--> 637 TOTAL IMAGES--> 2



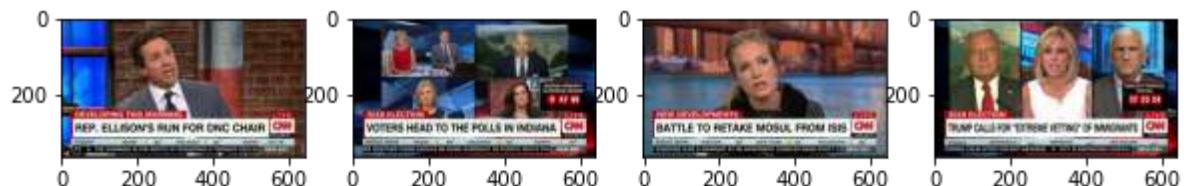
CLUSTER--> 638 TOTAL IMAGES--> 2



CLUSTER--> 639 TOTAL IMAGES--> 2



CLUSTER--> 640 TOTAL IMAGES--> 5



CLUSTER--> 641 TOTAL IMAGES--> 3



CLUSTER--> 642 TOTAL IMAGES--> 2



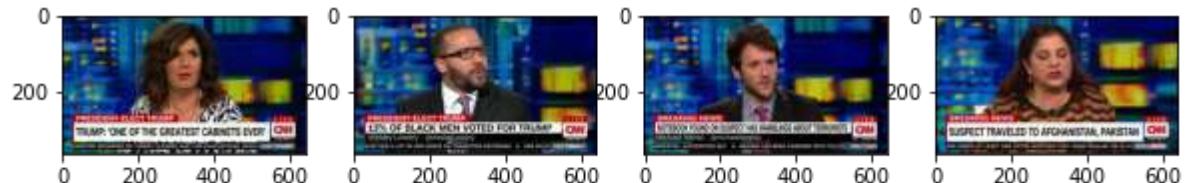
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CLUSTER--> 644 TOTAL IMAGES--> 2



CLUSTER--> 645 TOTAL IMAGES--> 5



CLUSTER--> 646 TOTAL IMAGES--> 2



CLUSTER--> 647 TOTAL IMAGES--> 6



CLUSTER--> 648 TOTAL IMAGES--> 3



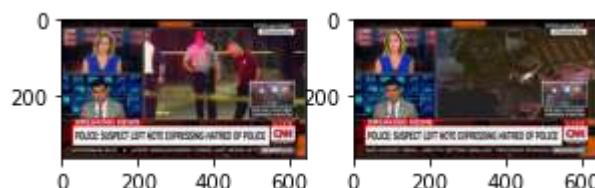
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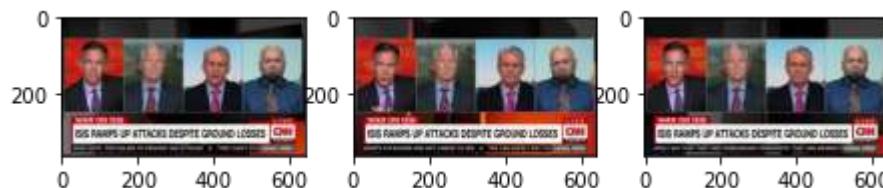
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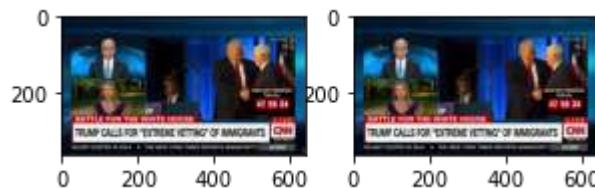
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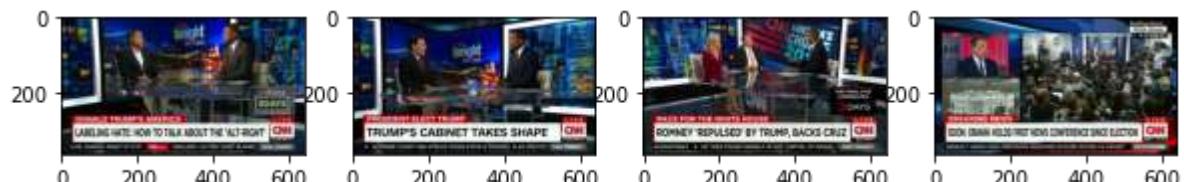
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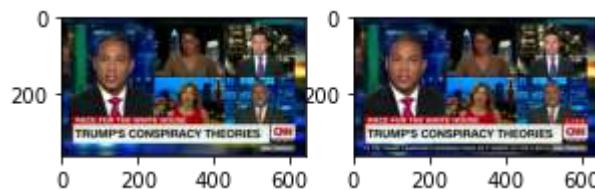
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CLUSTER--> 654 TOTAL IMAGES--> 4



CLUSTER--> 655 TOTAL IMAGES--> 2



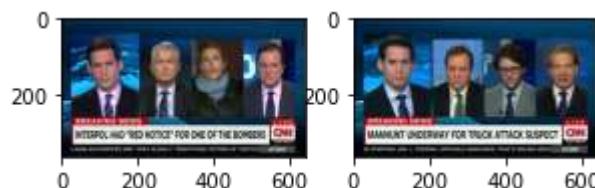
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CLUSTER--> 657 TOTAL IMAGES--> 8



CLUSTER--> 658 TOTAL IMAGES--> 2



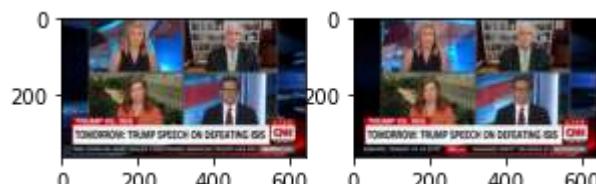
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CLUSTER--> 660 TOTAL IMAGES--> 2



CLUSTER--> 661 TOTAL IMAGES--> 2



CLUSTER--> 662 TOTAL IMAGES--> 2



CLUSTER--> 663 TOTAL IMAGES--> 2



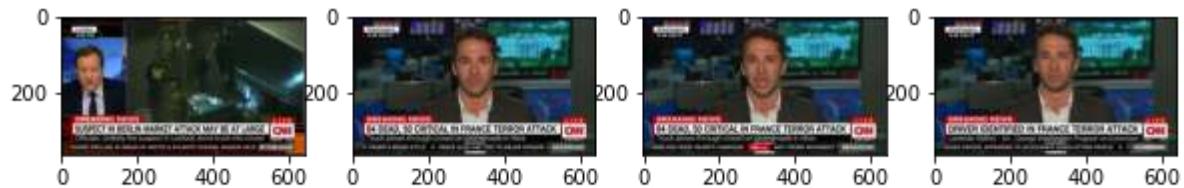
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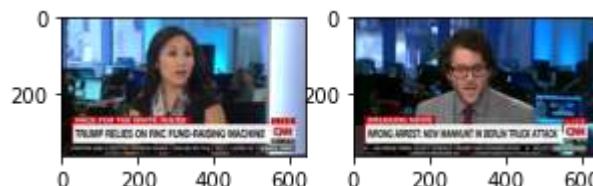
CLUSTER--> 665 TOTAL IMAGES--> 2



CLUSTER--> 666 TOTAL IMAGES--> 8



CLUSTER--> 667 TOTAL IMAGES--> 2



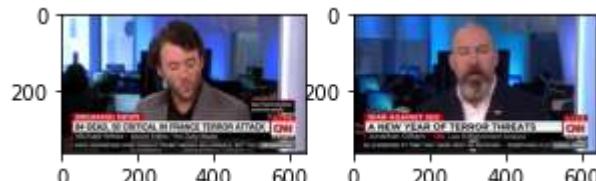
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CLUSTER--> 669 TOTAL IMAGES--> 3



CLUSTER--> 670 TOTAL IMAGES--> 2



CLUSTER--> 671 TOTAL IMAGES--> 2



CLUSTER--> 672 TOTAL IMAGES--> 2



CLUSTER--> 673 TOTAL IMAGES--> 2



CLUSTER--> 674 TOTAL IMAGES--> 3



CLUSTER--> 675 TOTAL IMAGES--> 2



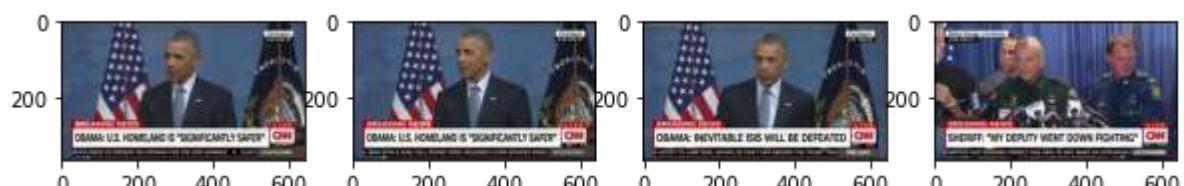
CLUSTER--> 676 TOTAL IMAGES--> 5



CLUSTER--> 677 TOTAL IMAGES--> 3



CLUSTER--> 678 TOTAL IMAGES--> 4



CLUSTER--> 679 TOTAL IMAGES--> 2



CLUSTER--> 680 TOTAL IMAGES--> 3



CLUSTER--> 681 TOTAL IMAGES--> 4



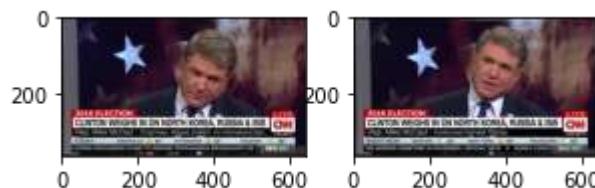
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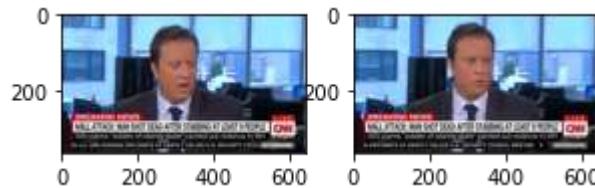
CLUSTER--> 684 TOTAL IMAGES--> 2



CLUSTER--> 685 TOTAL IMAGES--> 2



CLUSTER--> 686 TOTAL IMAGES--> 2



CLUSTER--> 687 TOTAL IMAGES--> 2



CLUSTER--> 688 TOTAL IMAGES--> 3



CLUSTER--> 689 TOTAL IMAGES--> 3



CLUSTER--> 690 TOTAL IMAGES--> 2



CLUSTER--> 691 TOTAL IMAGES--> 2



CLUSTER--> 692 TOTAL IMAGES--> 2



CLUSTER--> 693 TOTAL IMAGES--> 3



CLUSTER--> 694 TOTAL IMAGES--> 2



CLUSTER--> 695 TOTAL IMAGES--> 3



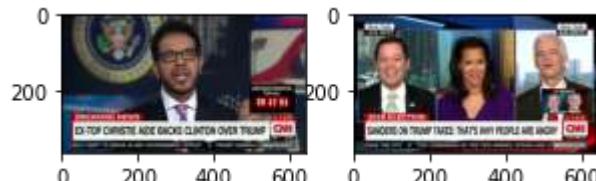
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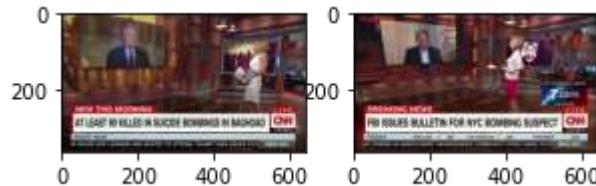
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CLUSTER--> 698 TOTAL IMAGES--> 2



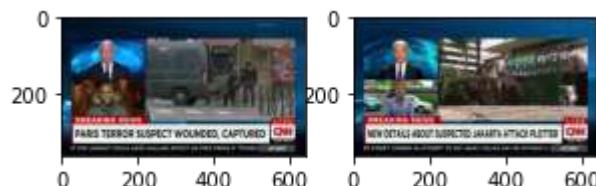
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CLUSTER--> 700 TOTAL IMAGES--> 3



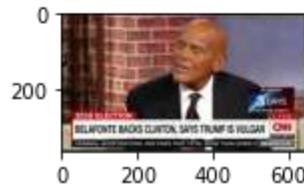
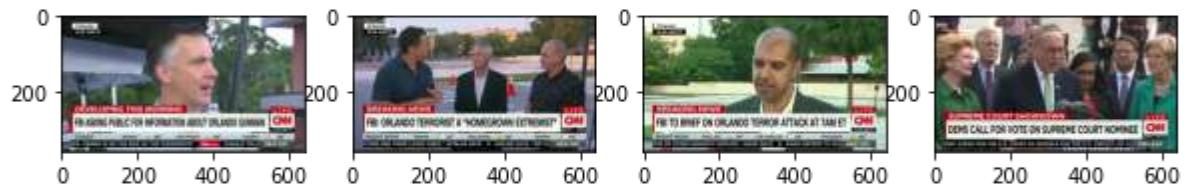
CLUSTER--> 701 TOTAL IMAGES--> 2



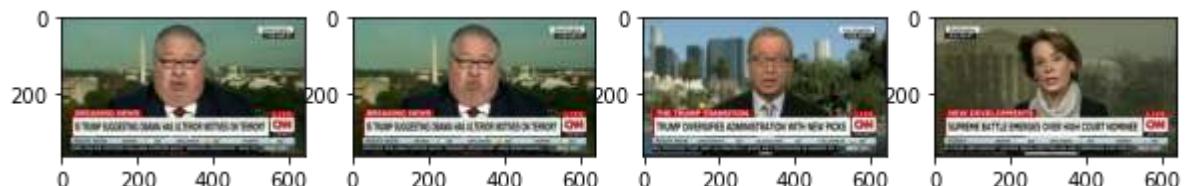
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CLUSTER--> 703 TOTAL IMAGES--> 9



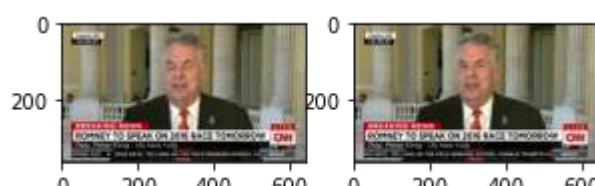
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CLUSTER--> 705 TOTAL IMAGES--> 2



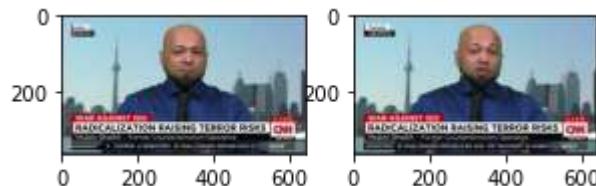
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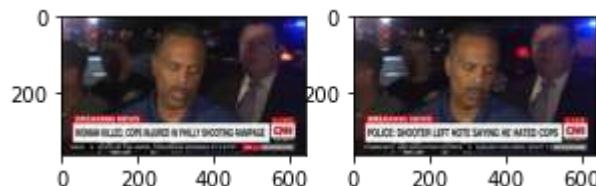
CLUSTER--> 707 TOTAL IMAGES--> 2



CLUSTER--> 708 TOTAL IMAGES--> 2



CLUSTER--> 709 TOTAL IMAGES--> 2



CLUSTER--> 710 TOTAL IMAGES--> 2



CLUSTER--> 711 TOTAL IMAGES--> 4



CLUSTER--> 712 TOTAL IMAGES--> 3



CLUSTER--> 713 TOTAL IMAGES--> 2



CLUSTER--> 714 TOTAL IMAGES--> 3



CLUSTER--> 715 TOTAL IMAGES--> 2



CLUSTER--> 716 TOTAL IMAGES--> 3



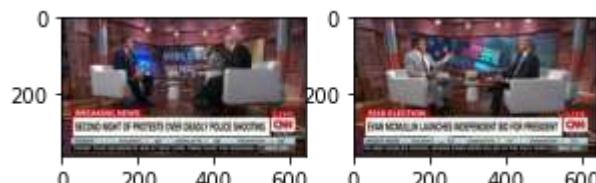
CLUSTER--> 717 TOTAL IMAGES--> 7



CLUSTER--> 718 TOTAL IMAGES--> 2



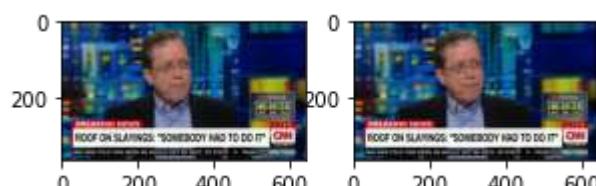
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CLUSTER--> 720 TOTAL IMAGES--> 2



CLUSTER--> 721 TOTAL IMAGES--> 2



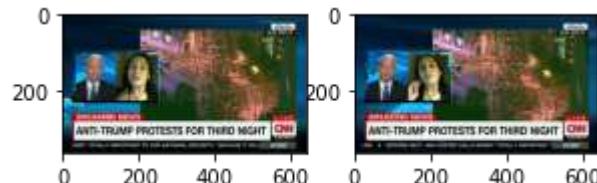
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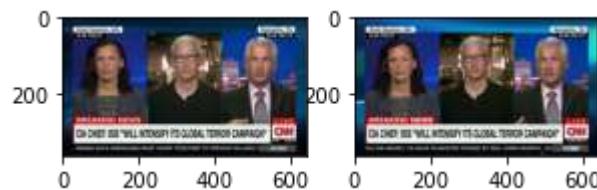
CLUSTER--> 723 TOTAL IMAGES--> 2



CLUSTER--> 724 TOTAL IMAGES--> 2



CLUSTER--> 725 TOTAL IMAGES--> 2



DBSCAN

```
In [6]: predicted_Labels=np.load('D://Himani-work/gsoc2020/code/image-results-updateGr  
id/ideology_model_densenet121.npy-pca-tsne_dbSCAN_labels.npy')  
unique_labels=set(predicted_Labels)  
for label in unique_labels:  
    if(label!=-1):  
        showClustering(predicted_Labels,label)
```

CLUSTER--> 0 TOTAL IMAGES--> 4



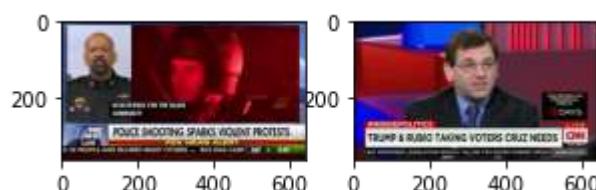
CLUSTER--> 1 TOTAL IMAGES--> 19



CLUSTER--> 2 TOTAL IMAGES--> 4



CLUSTER--> 3 TOTAL IMAGES--> 2



CLUSTER--> 4 TOTAL IMAGES--> 12



CLUSTER--> 5 TOTAL IMAGES--> 3



CLUSTER--> 6 TOTAL IMAGES--> 3



CLUSTER--> 7 TOTAL IMAGES--> 16



CLUSTER--> 8 TOTAL IMAGES--> 8



CLUSTER--> 9 TOTAL IMAGES--> 13





CLUSTER--> 10 TOTAL IMAGES--> 3



CLUSTER--> 11 TOTAL IMAGES--> 14



CLUSTER--> 12 TOTAL IMAGES--> 2

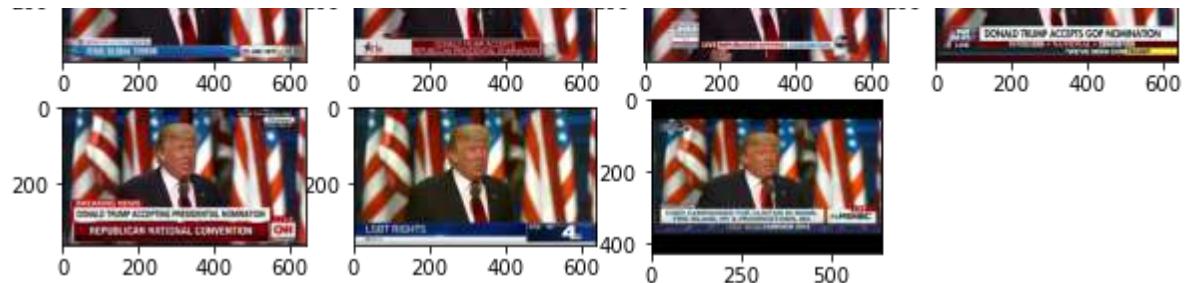


CLUSTER--> 13 TOTAL IMAGES--> 8

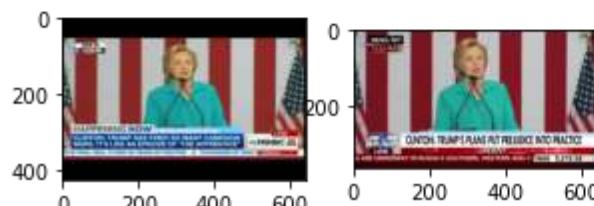
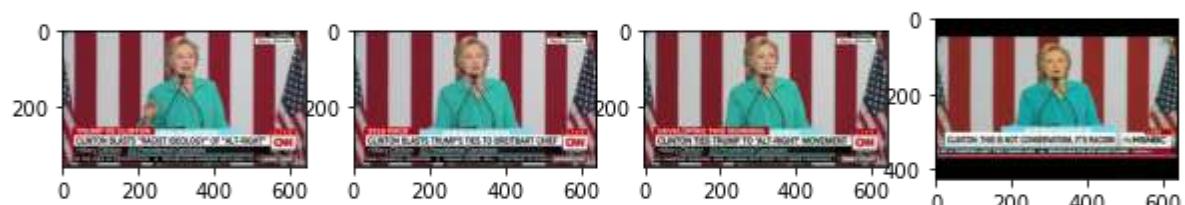
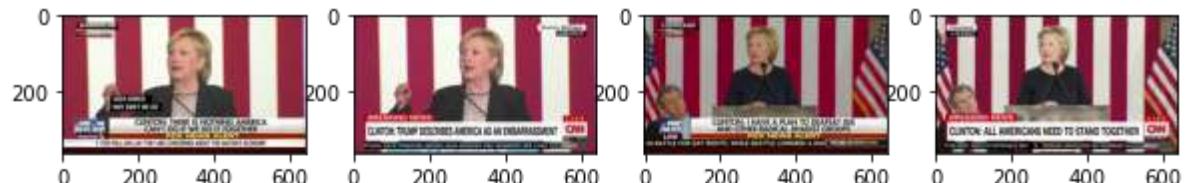


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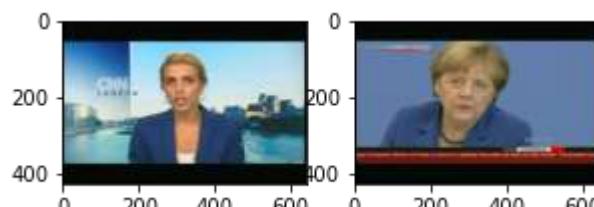




CLUSTER--> 15 TOTAL IMAGES--> 10



CLUSTER--> 16 TOTAL IMAGES--> 2



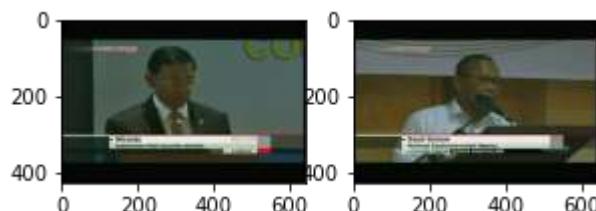
CLUSTER--> 17 TOTAL IMAGES--> 3



CLUSTER--> 18 TOTAL IMAGES--> 7



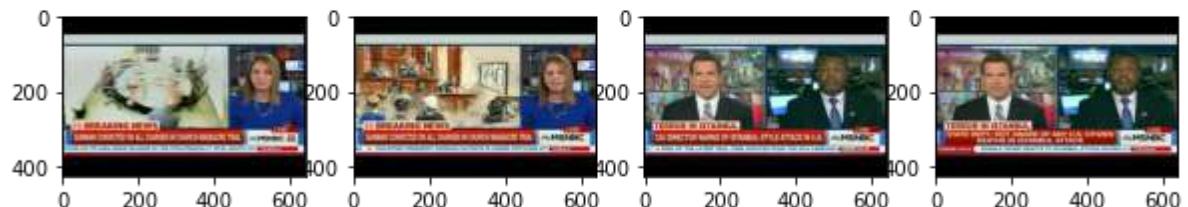
CLUSTER--> 19 TOTAL IMAGES--> 2



CLUSTER--> 20 TOTAL IMAGES--> 3



CLUSTER--> 21 TOTAL IMAGES--> 21





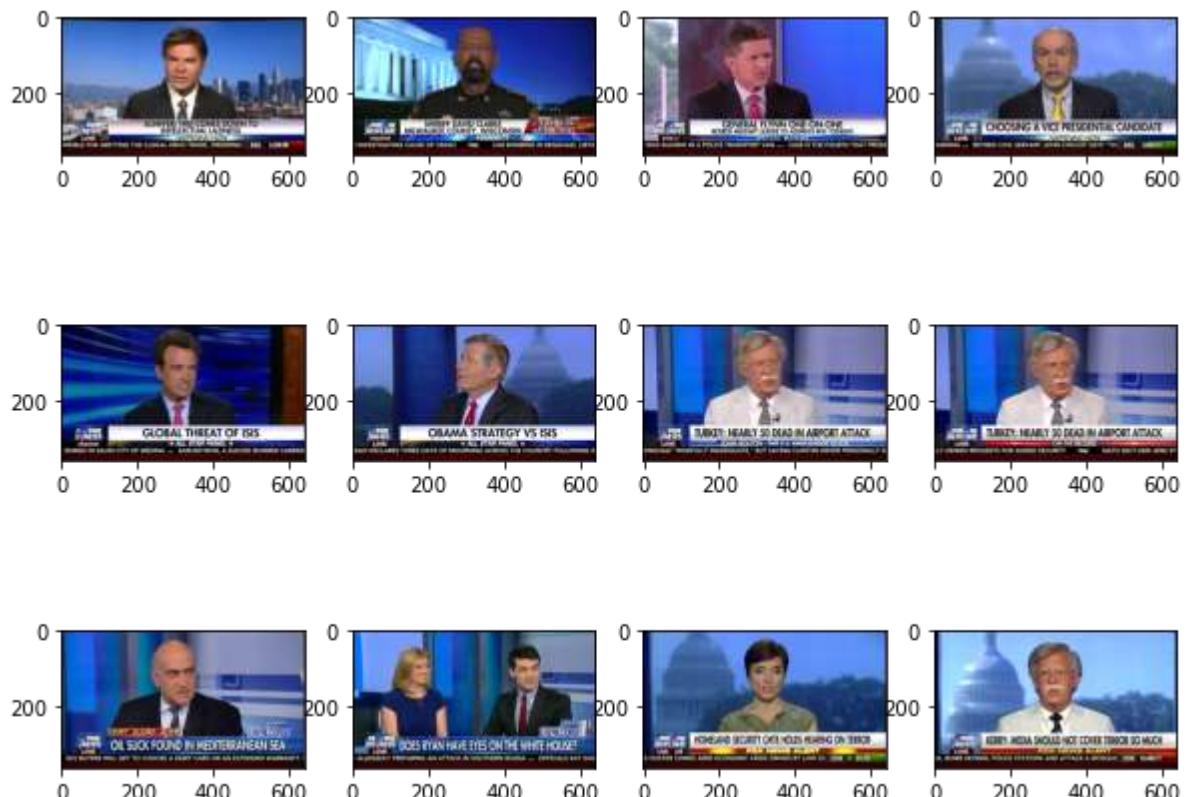
CLUSTER--> 22 TOTAL IMAGES--> 8



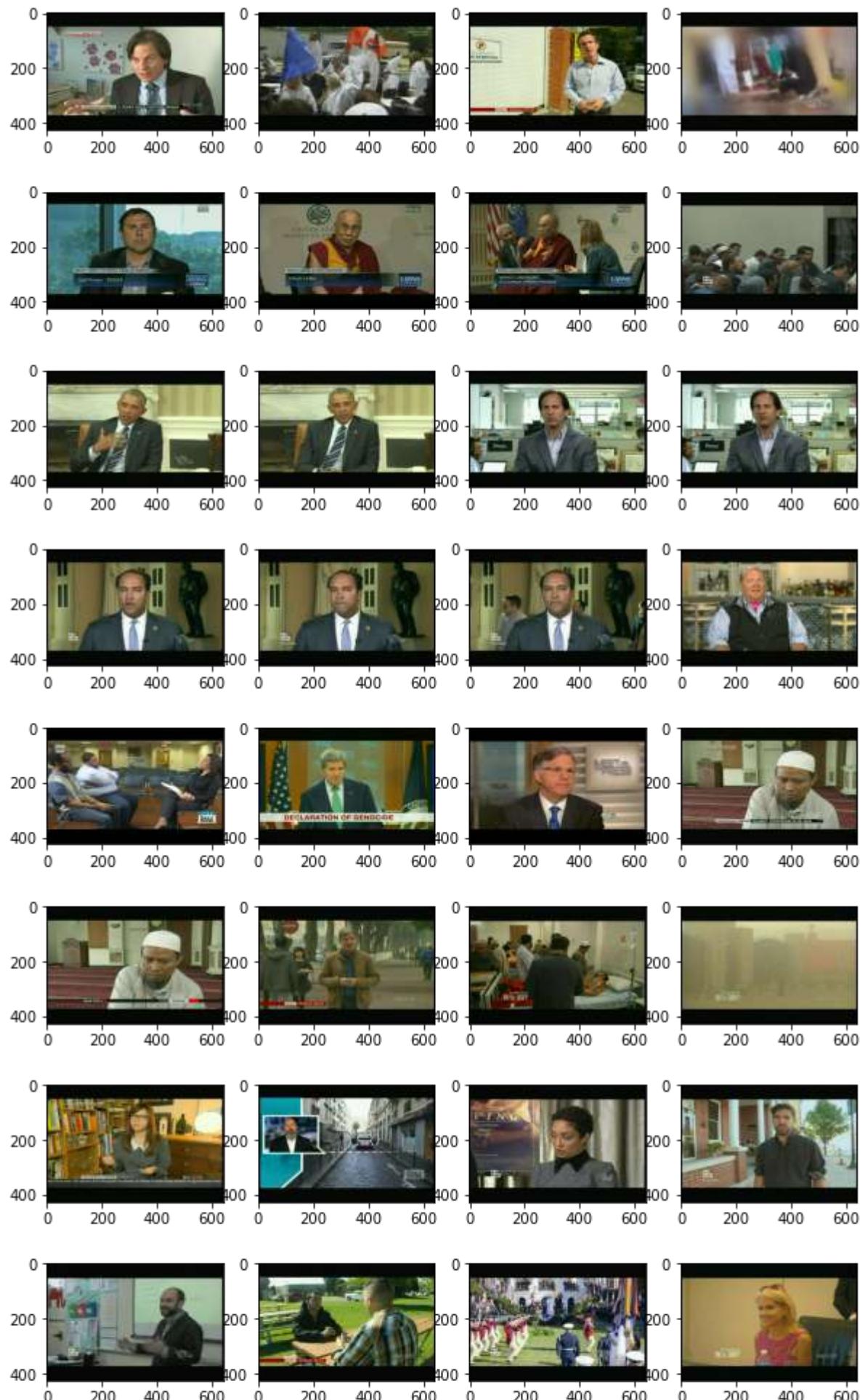
CLUSTER--> 23 TOTAL IMAGES--> 3



CLUSTER--> 24 TOTAL IMAGES--> 12

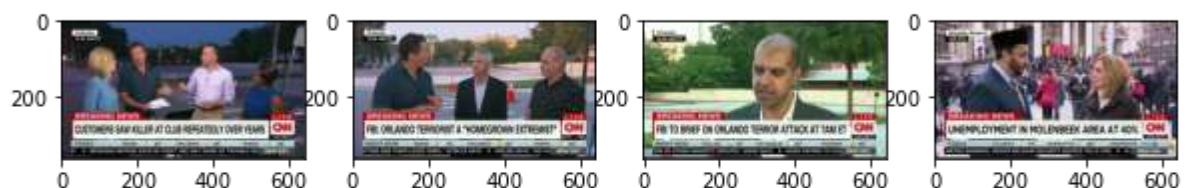
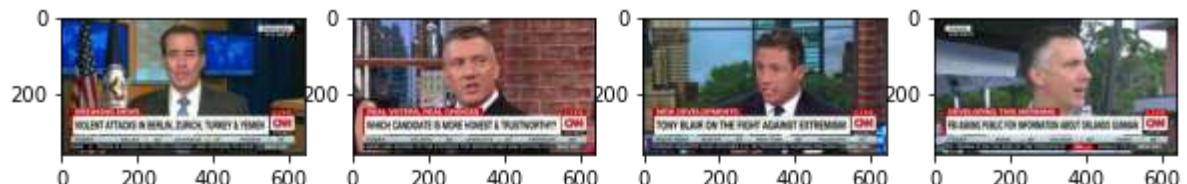


CLUSTER--> 25 TOTAL IMAGES--> 33





CLUSTER--> 26 TOTAL IMAGES--> 15



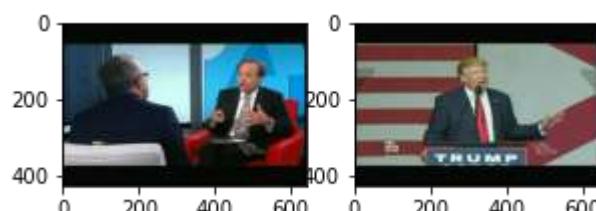
CLUSTER--> 27 TOTAL IMAGES--> 6



CLUSTER--> 28 TOTAL IMAGES--> 2



CLUSTER--> 29 TOTAL IMAGES--> 2



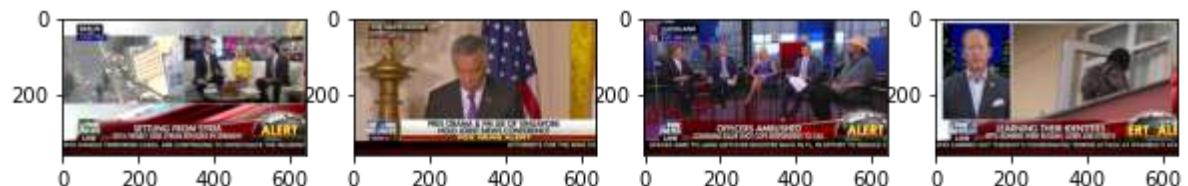
CLUSTER--> 30 TOTAL IMAGES--> 2



CLUSTER--> 31 TOTAL IMAGES--> 9

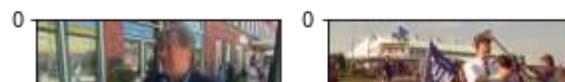
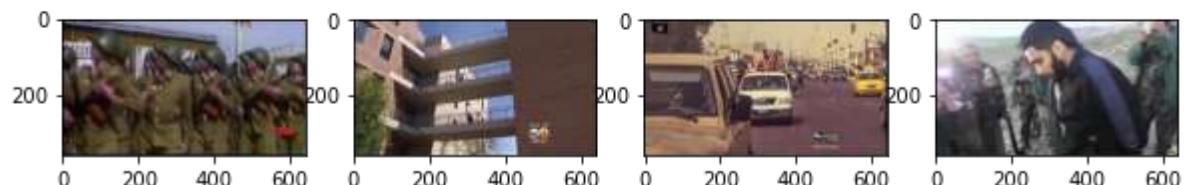
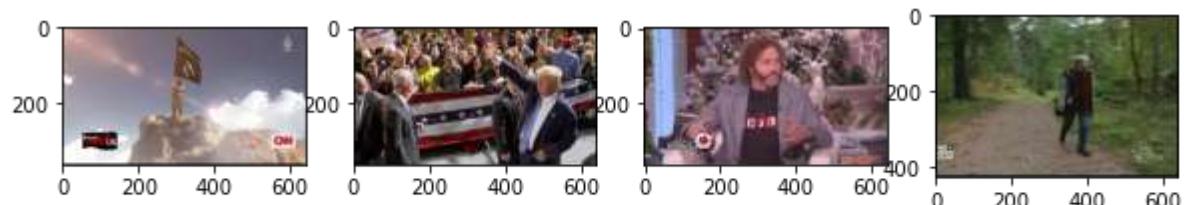
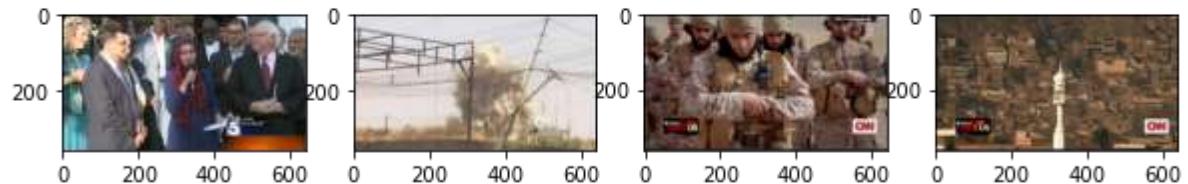
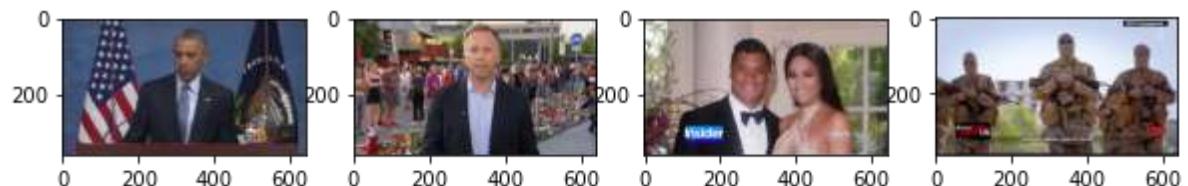


CLUSTER--> 32 TOTAL IMAGES--> 25





CLUSTER--> 33 TOTAL IMAGES--> 22

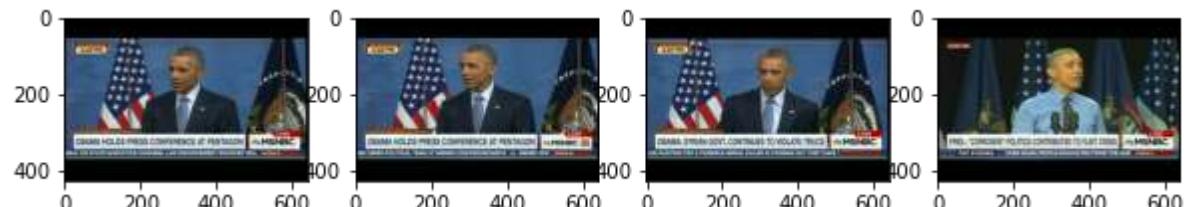




CLUSTER--> 34 TOTAL IMAGES--> 5



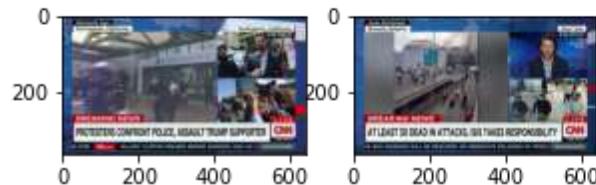
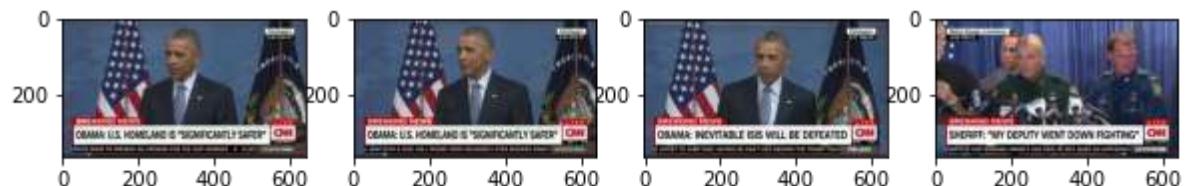
CLUSTER--> 35 TOTAL IMAGES--> 4



CLUSTER--> 36 TOTAL IMAGES--> 2



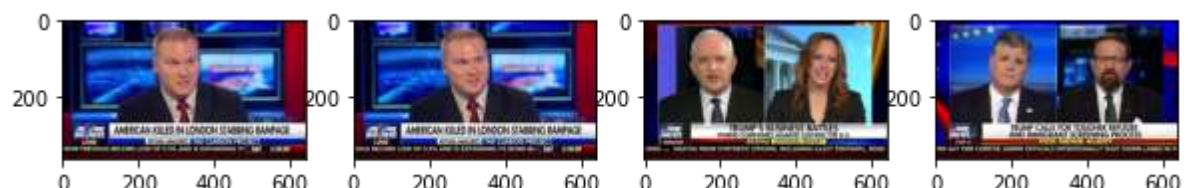
CLUSTER--> 37 TOTAL IMAGES--> 6



CLUSTER--> 38 TOTAL IMAGES--> 4



CLUSTER--> 39 TOTAL IMAGES--> 4



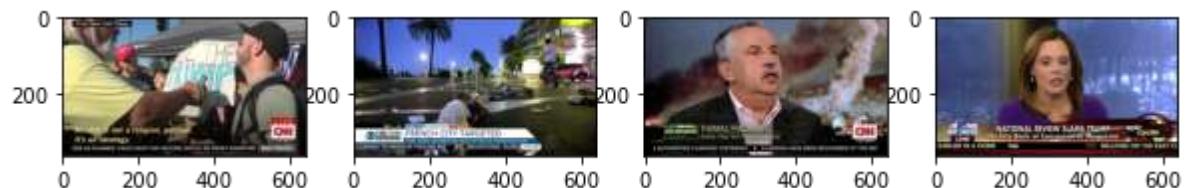
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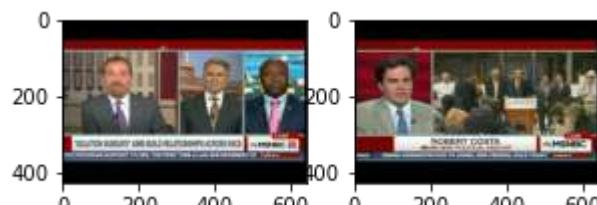
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CLUSTER--> 42 TOTAL IMAGES--> 4



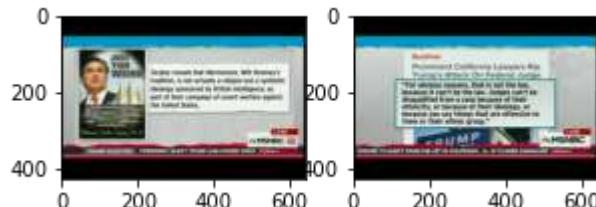
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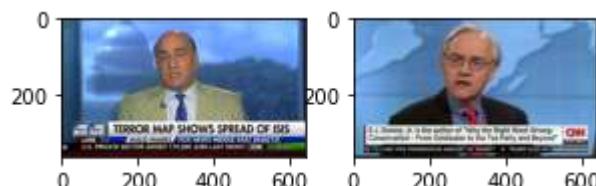
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CLUSTER--> 45 TOTAL IMAGES--> 2



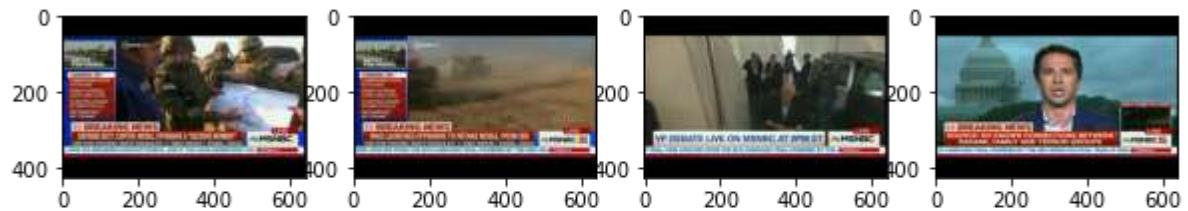
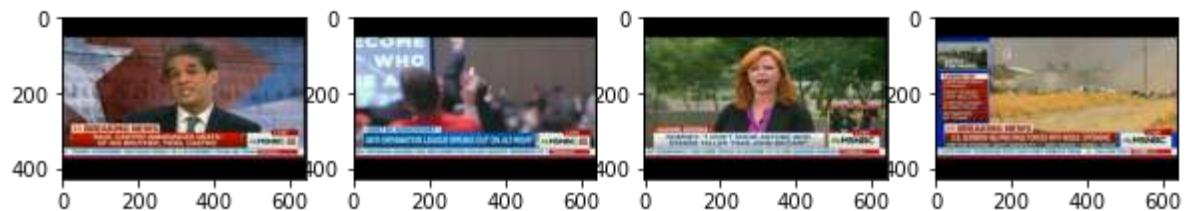
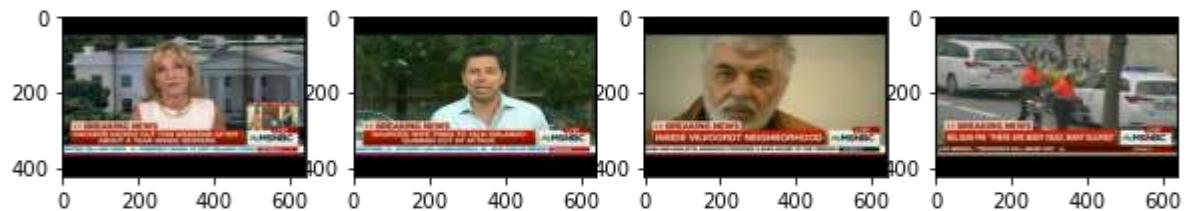
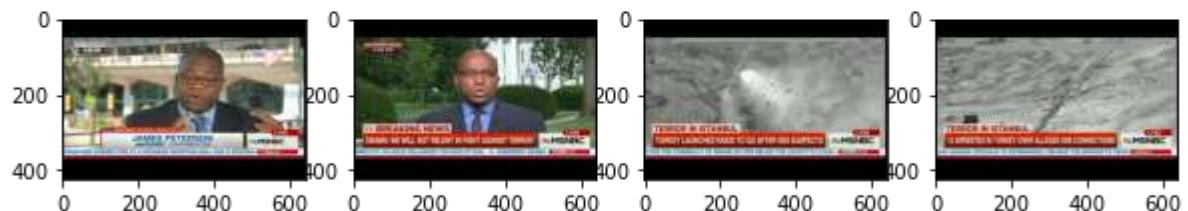
CLUSTER--> 46 TOTAL IMAGES--> 2



CLUSTER--> 47 TOTAL IMAGES--> 4

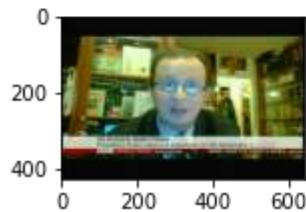
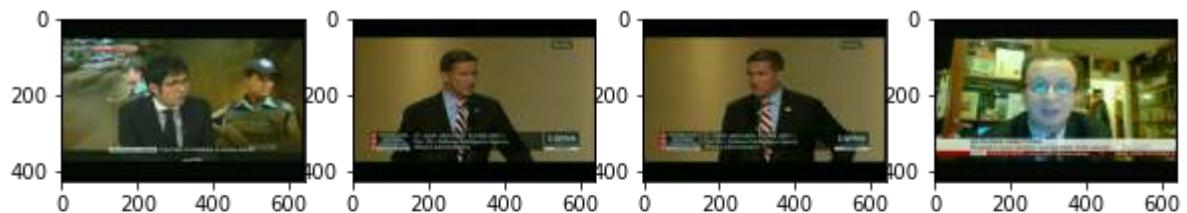


CLUSTER--> 48 TOTAL IMAGES--> 27



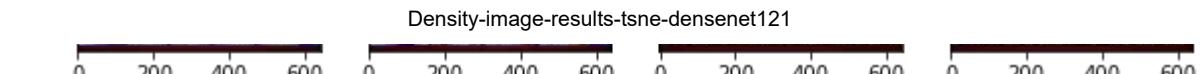


CLUSTER--> 49 TOTAL IMAGES--> 5



CLUSTER--> 50 TOTAL IMAGES--> 20

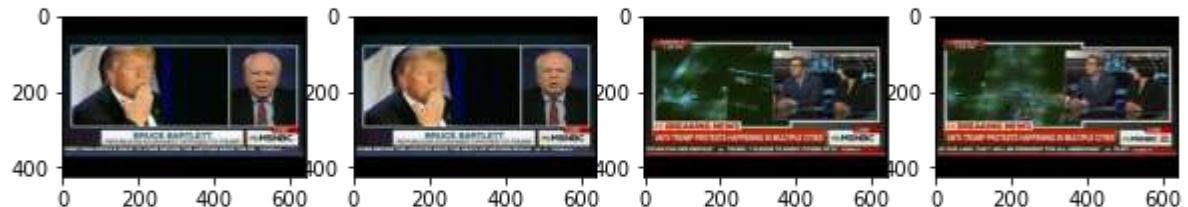




CLUSTER--> 51 TOTAL IMAGES--> 9



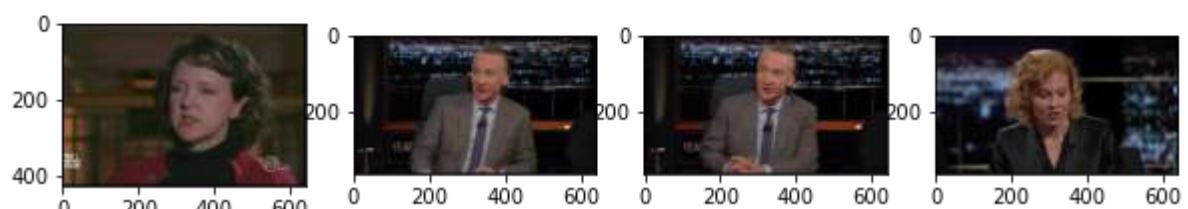
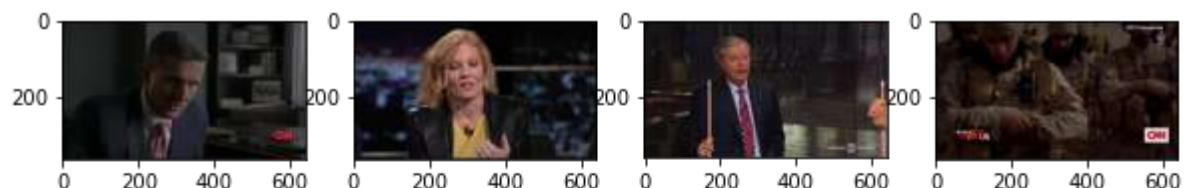
CLUSTER--> 52 TOTAL IMAGES--> 10



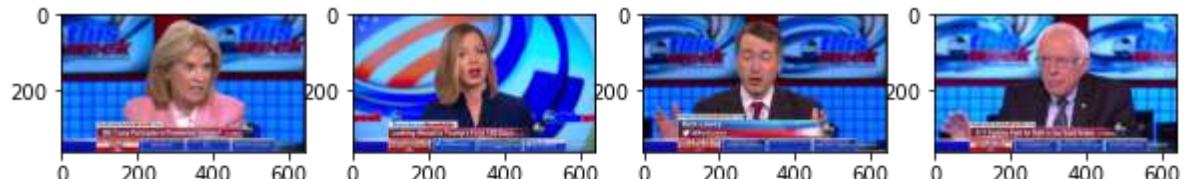
CLUSTER--> 53 TOTAL IMAGES--> 7



CLUSTER--> 54 TOTAL IMAGES--> 8



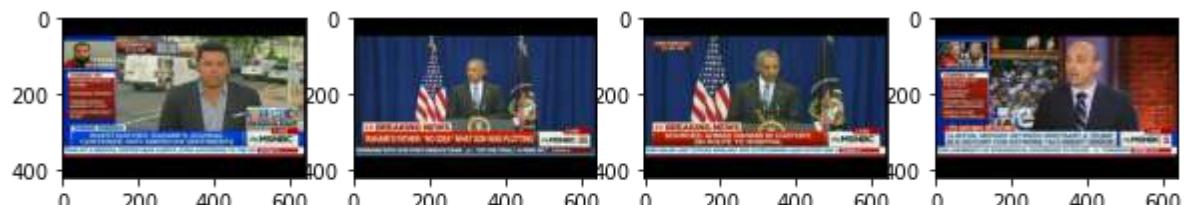
CLUSTER--> 55 TOTAL IMAGES--> 5



CLUSTER--> 56 TOTAL IMAGES--> 3

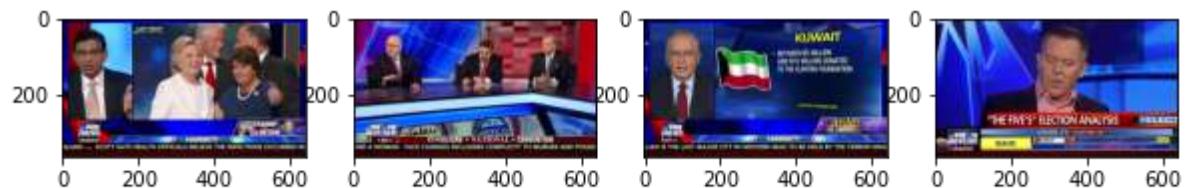


CLUSTER--> 57 TOTAL IMAGES--> 23





CLUSTER--> 58 TOTAL IMAGES--> 8



CLUSTER--> 59 TOTAL IMAGES--> 3



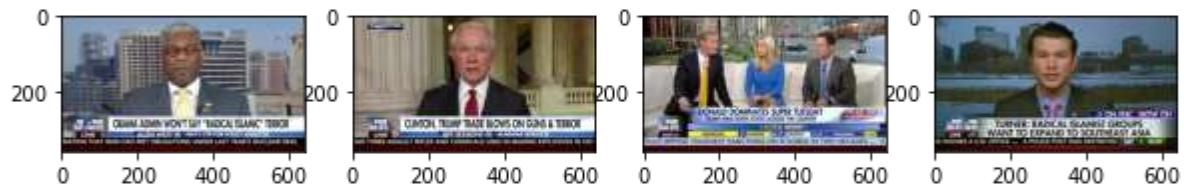
CLUSTER--> 60 TOTAL IMAGES--> 4



CLUSTER--> 61 TOTAL IMAGES--> 3



CLUSTER--> 62 TOTAL IMAGES--> 9



CLUSTER--> 63 TOTAL IMAGES--> 3



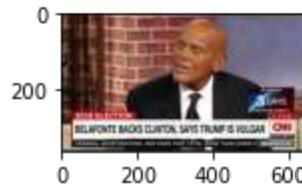
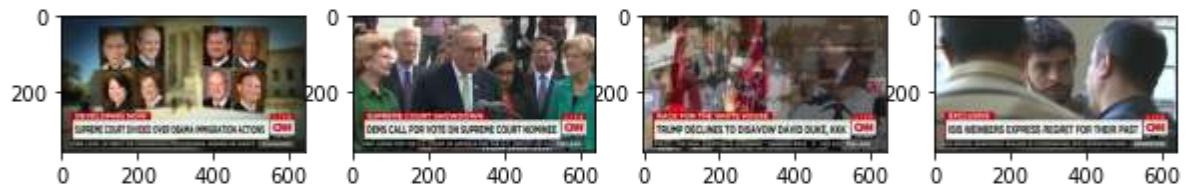
CLUSTER--> 64 TOTAL IMAGES--> 3



CLUSTER--> 65 TOTAL IMAGES--> 2



CLUSTER--> 66 TOTAL IMAGES--> 9



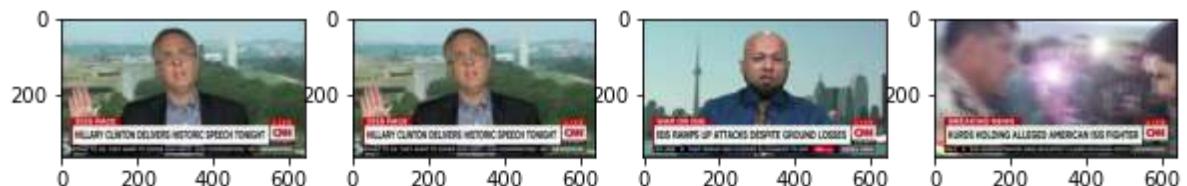
CLUSTER--> 67 TOTAL IMAGES--> 3



CLUSTER--> 68 TOTAL IMAGES--> 3



CLUSTER--> 69 TOTAL IMAGES--> 6



CLUSTER--> 70 TOTAL IMAGES--> 16



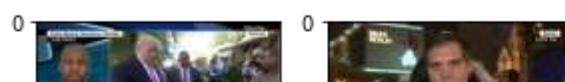
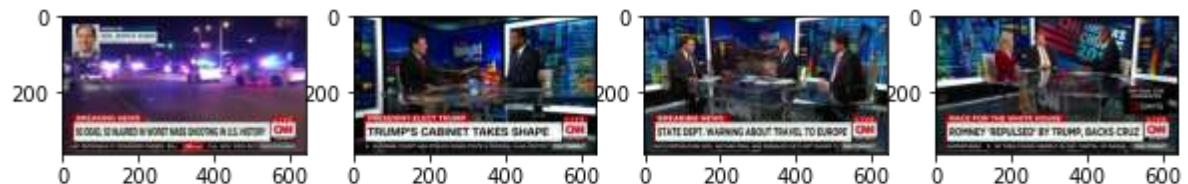
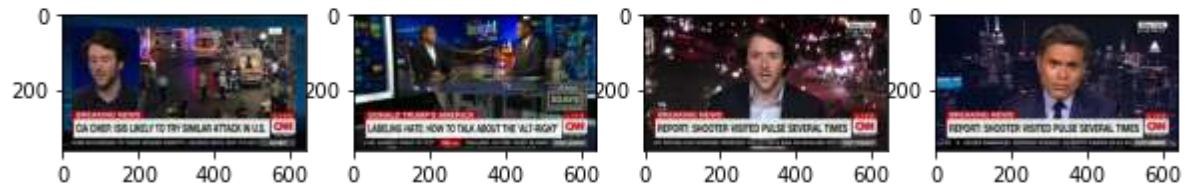
CLUSTER--> 71 TOTAL IMAGES--> 2



CLUSTER--> 72 TOTAL IMAGES--> 4



CLUSTER--> 73 TOTAL IMAGES--> 22

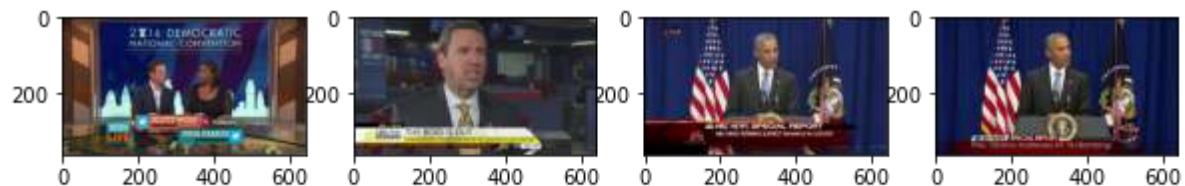




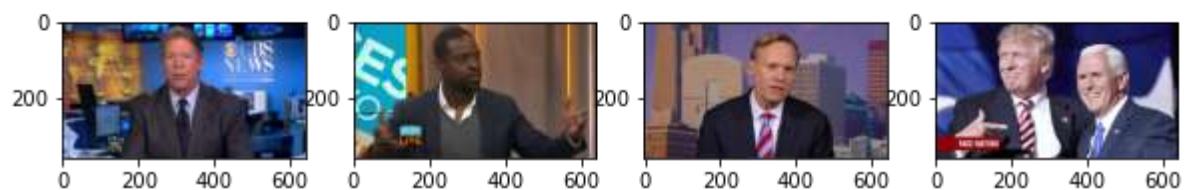
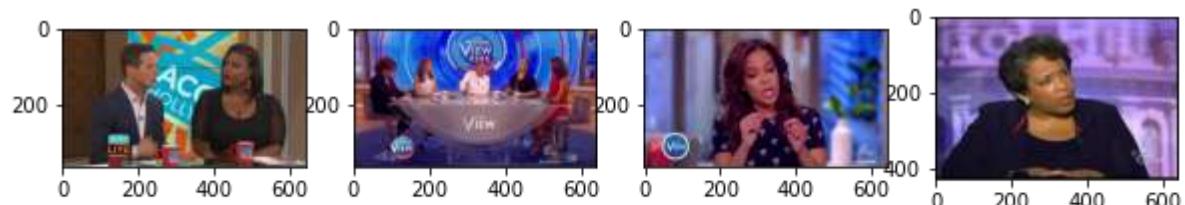
CLUSTER--> 74 TOTAL IMAGES--> 3



CLUSTER--> 75 TOTAL IMAGES--> 5



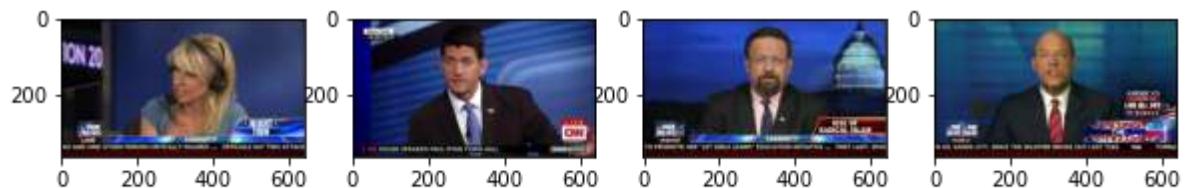
CLUSTER--> 76 TOTAL IMAGES--> 8



CLUSTER--> 77 TOTAL IMAGES--> 7



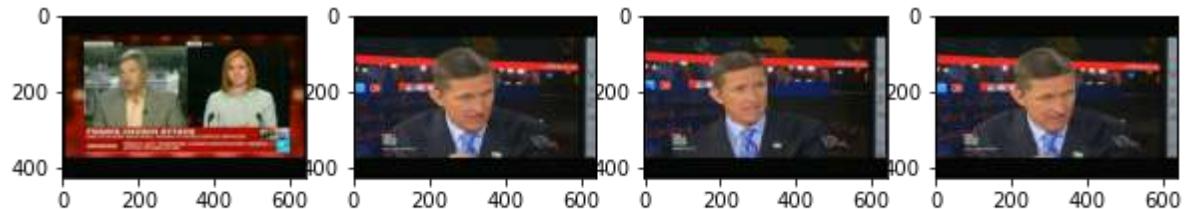
CLUSTER--> 78 TOTAL IMAGES--> 7



CLUSTER--> 79 TOTAL IMAGES--> 2



CLUSTER--> 80 TOTAL IMAGES--> 5



CLUSTER--> 81 TOTAL IMAGES--> 4



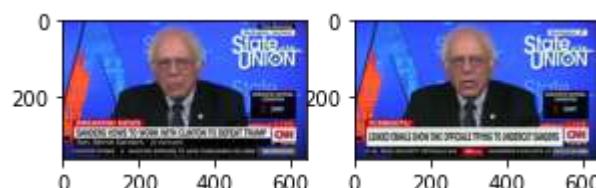
CLUSTER--> 82 TOTAL IMAGES--> 2



CLUSTER--> 83 TOTAL IMAGES--> 12



CLUSTER--> 84 TOTAL IMAGES--> 2



CLUSTER--> 85 TOTAL IMAGES--> 7



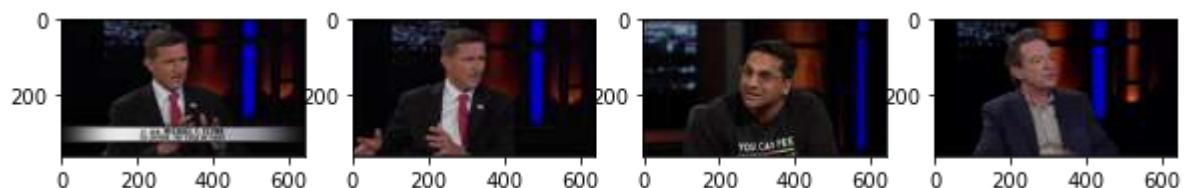
CLUSTER--> 86 TOTAL IMAGES--> 3



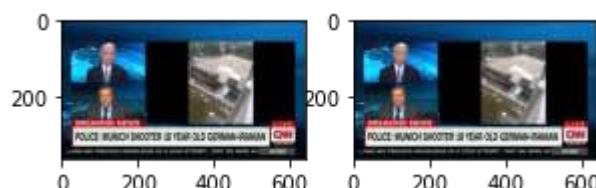
CLUSTER--> 87 TOTAL IMAGES--> 3



CLUSTER--> 88 TOTAL IMAGES--> 4



CLUSTER--> 89 TOTAL IMAGES--> 2



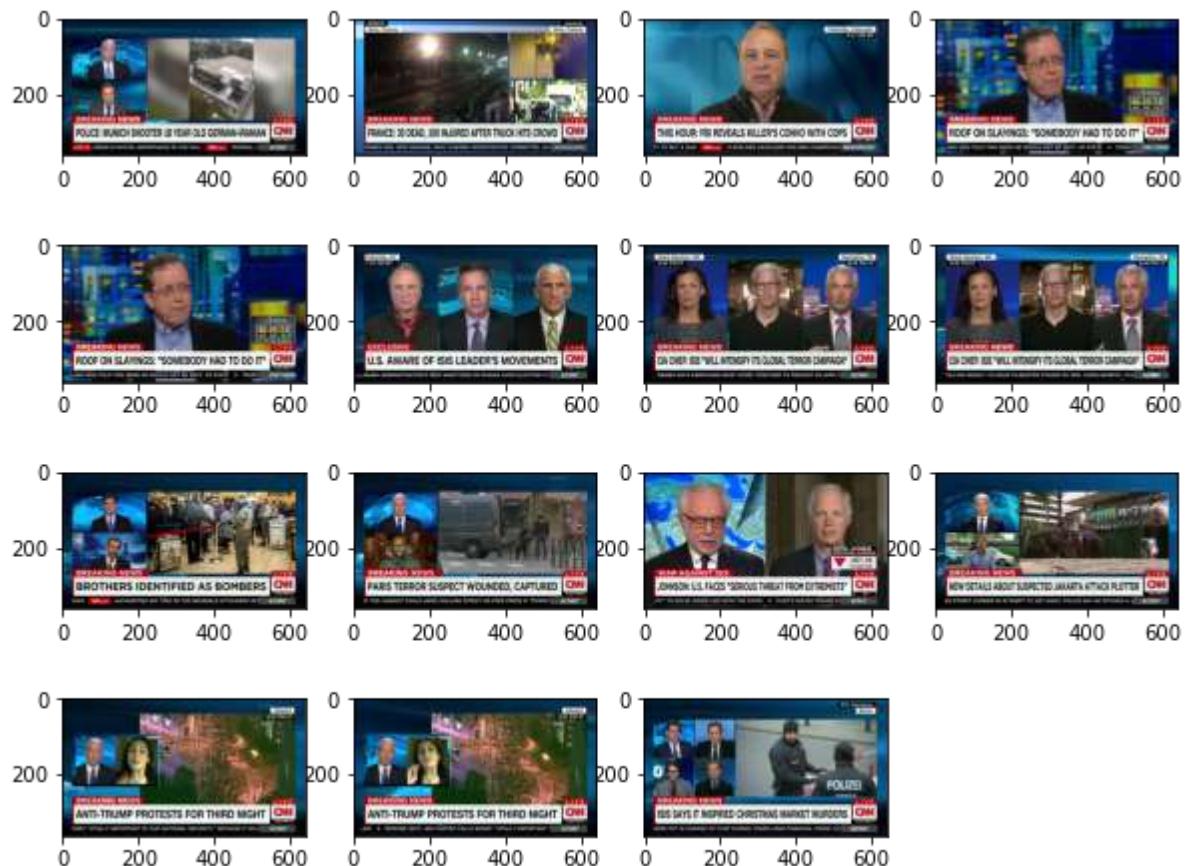
CLUSTER--> 90 TOTAL IMAGES--> 2



CLUSTER--> 91 TOTAL IMAGES--> 3



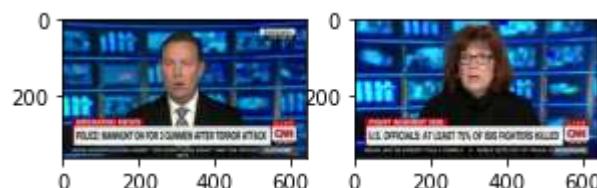
CLUSTER--> 92 TOTAL IMAGES--> 15



CLUSTER--> 93 TOTAL IMAGES--> 4



CLUSTER--> 94 TOTAL IMAGES--> 2



CLUSTER--> 95 TOTAL IMAGES--> 3



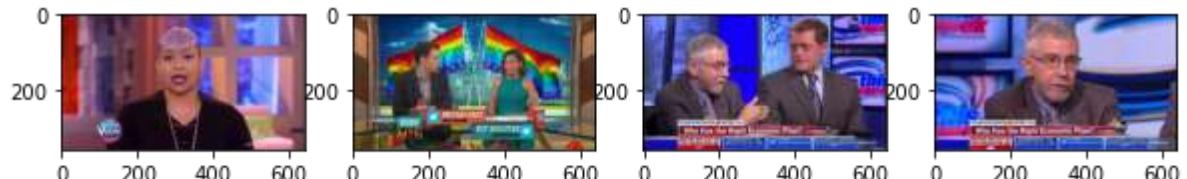
CLUSTER--> 96 TOTAL IMAGES--> 3



CLUSTER--> 97 TOTAL IMAGES--> 17



CLUSTER--> 98 TOTAL IMAGES--> 8



CLUSTER--> 99 TOTAL IMAGES--> 3



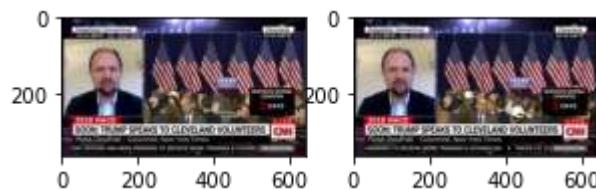
CLUSTER--> 100 TOTAL IMAGES--> 5



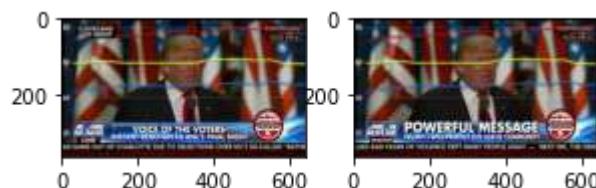
CLUSTER--> 101 TOTAL IMAGES--> 2



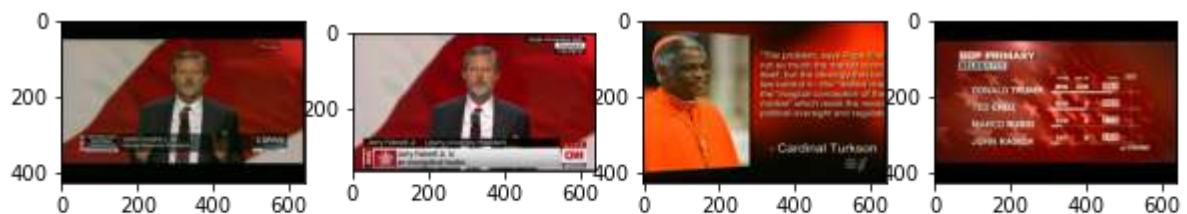
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CLUSTER--> 103 TOTAL IMAGES--> 2



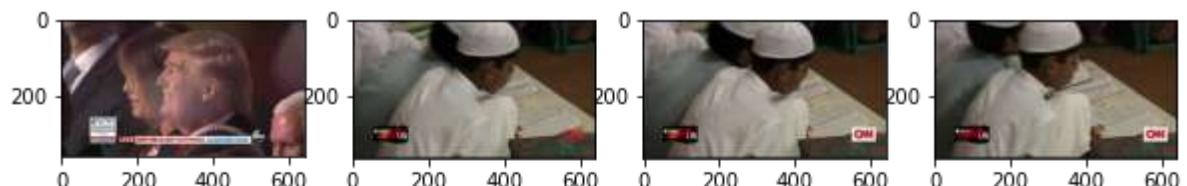
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CLUSTER--> 105 TOTAL IMAGES--> 7



CLUSTER--> 106 TOTAL IMAGES--> 6



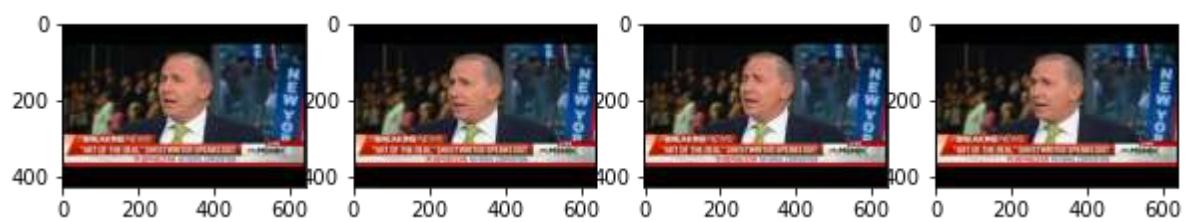
CLUSTER--> 107 TOTAL IMAGES--> 7



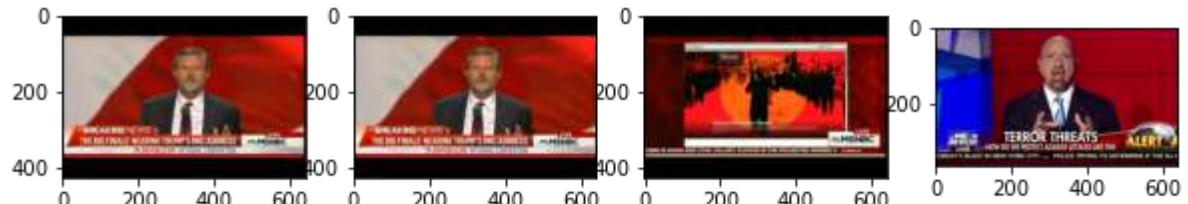
CLUSTER--> 108 TOTAL IMAGES--> 6



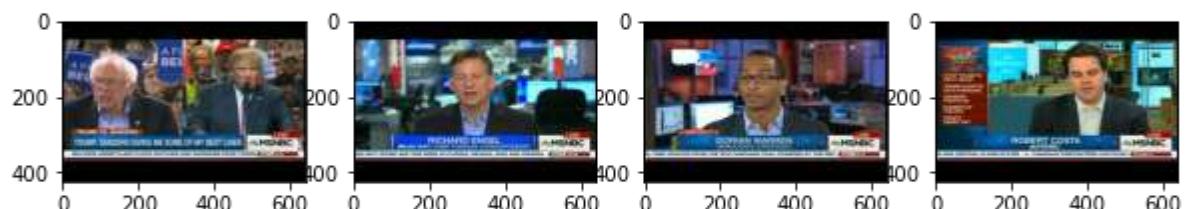
CLUSTER--> 109 TOTAL IMAGES--> 4



CLUSTER--> 110 TOTAL IMAGES--> 5



CLUSTER--> 111 TOTAL IMAGES--> 11



CLUSTER--> 112 TOTAL IMAGES--> 3



CLUSTER--> 113 TOTAL IMAGES--> 8



CLUSTER--> 114 TOTAL IMAGES--> 3



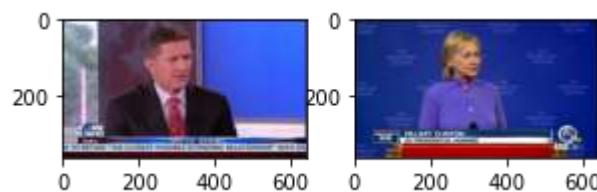
CLUSTER--> 115 TOTAL IMAGES--> 5



CLUSTER--> 116 TOTAL IMAGES--> 5



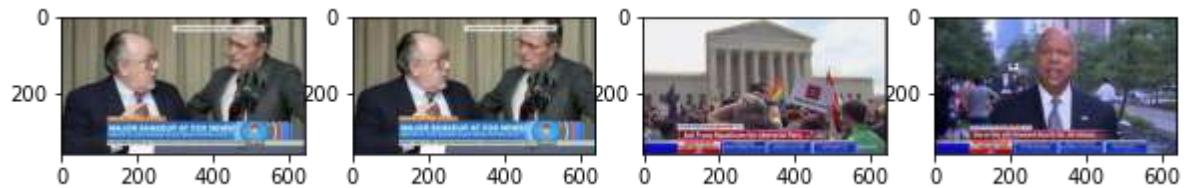
CLUSTER--> 117 TOTAL IMAGES--> 2



CLUSTER--> 118 TOTAL IMAGES--> 3



CLUSTER--> 119 TOTAL IMAGES--> 4

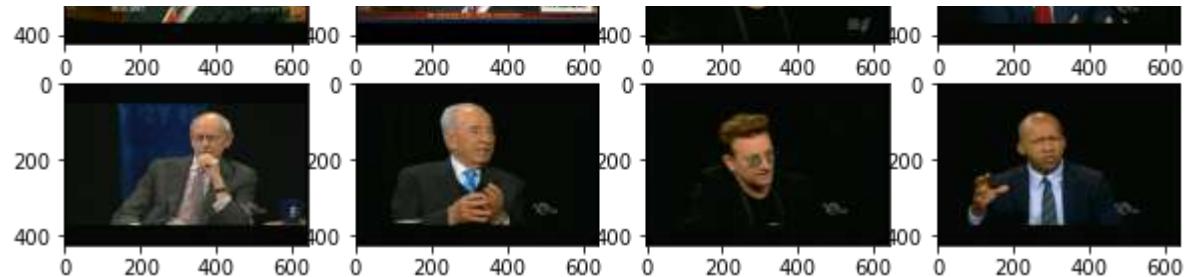


CLUSTER--> 120 TOTAL IMAGES--> 3



CLUSTER--> 121 TOTAL IMAGES--> 44





CLUSTER--> 122 TOTAL IMAGES--> 2



CLUSTER--> 123 TOTAL IMAGES--> 2



CLUSTER--> 124 TOTAL IMAGES--> 4



CLUSTER--> 125 TOTAL IMAGES--> 2



CLUSTER--> 126 TOTAL IMAGES--> 2



CLUSTER--> 127 TOTAL IMAGES--> 3



CLUSTER--> 128 TOTAL IMAGES--> 4



CLUSTER--> 129 TOTAL IMAGES--> 2



CLUSTER--> 130 TOTAL IMAGES--> 2



CLUSTER--> 131 TOTAL IMAGES--> 4



CLUSTER--> 132 TOTAL IMAGES--> 6



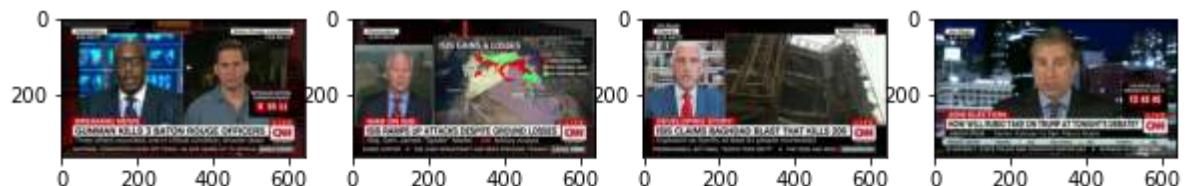
CLUSTER--> 133 TOTAL IMAGES--> 2



CLUSTER--> 134 TOTAL IMAGES--> 3



CLUSTER--> 135 TOTAL IMAGES--> 6



CLUSTER--> 136 TOTAL IMAGES--> 13



CLUSTER--> 137 TOTAL IMAGES--> 3



CLUSTER--> 138 TOTAL IMAGES--> 3



CLUSTER--> 139 TOTAL IMAGES--> 4



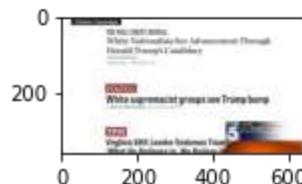
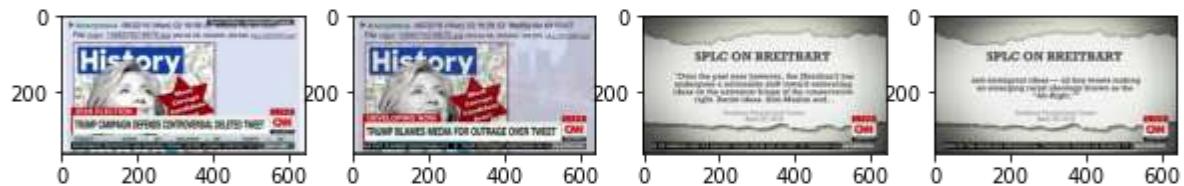
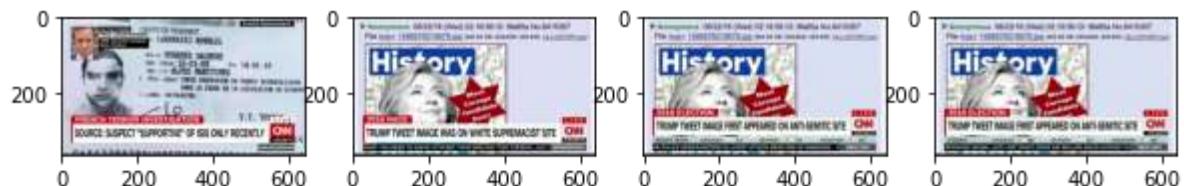
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CLUSTER--> 141 TOTAL IMAGES--> 3



CLUSTER--> 142 TOTAL IMAGES--> 9



CLUSTER--> 143 TOTAL IMAGES--> 2



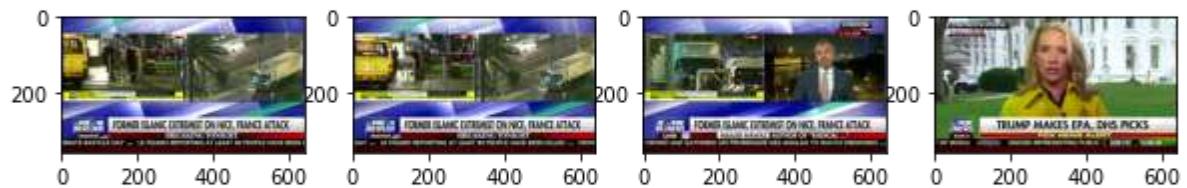
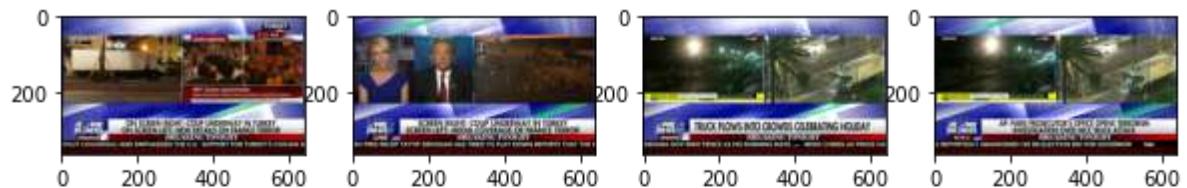
CLUSTER--> 144 TOTAL IMAGES--> 5



CLUSTER--> 145 TOTAL IMAGES--> 3



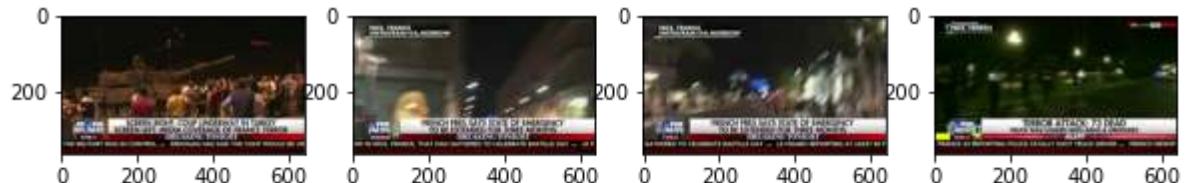
CLUSTER--> 146 TOTAL IMAGES--> 10



CLUSTER--> 147 TOTAL IMAGES--> 2



CLUSTER--> 148 TOTAL IMAGES--> 5



CLUSTER--> 149 TOTAL IMAGES--> 8



CLUSTER--> 150 TOTAL IMAGES--> 6



CLUSTER--> 151 TOTAL IMAGES--> 4



CLUSTER--> 152 TOTAL IMAGES--> 3



CLUSTER--> 153 TOTAL IMAGES--> 4



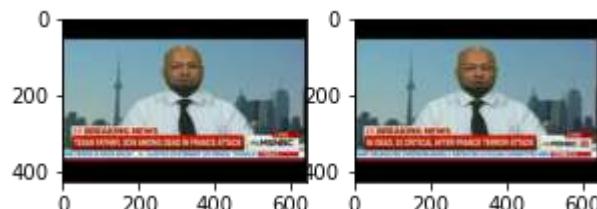
CLUSTER--> 154 TOTAL IMAGES--> 4



CLUSTER--> 155 TOTAL IMAGES--> 4



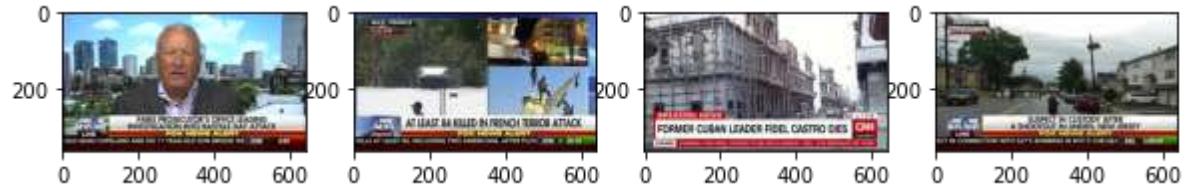
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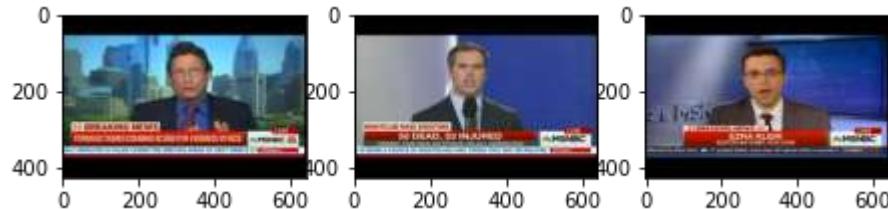
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CLUSTER--> 158 TOTAL IMAGES--> 4



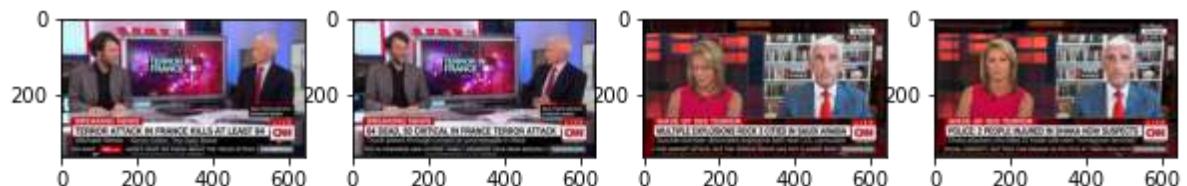
CLUSTER--> 159 TOTAL IMAGES--> 3



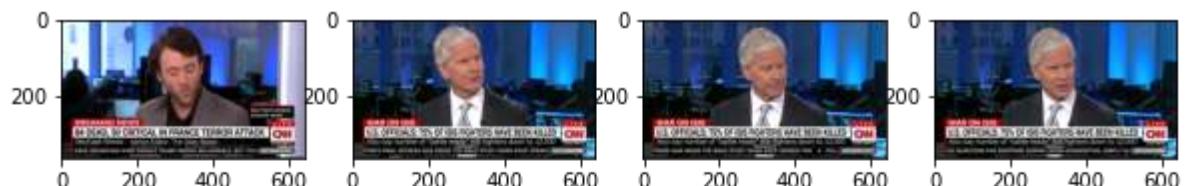
CLUSTER--> 160 TOTAL IMAGES--> 3



CLUSTER--> 161 TOTAL IMAGES--> 8



CLUSTER--> 162 TOTAL IMAGES--> 6



CLUSTER--> 163 TOTAL IMAGES--> 2



CLUSTER--> 164 TOTAL IMAGES--> 7



CLUSTER--> 165 TOTAL IMAGES--> 2



CLUSTER--> 166 TOTAL IMAGES--> 18



CLUSTER--> 167 TOTAL IMAGES--> 8



CLUSTER--> 168 TOTAL IMAGES--> 3



CLUSTER--> 169 TOTAL IMAGES--> 5



CLUSTER--> 170 TOTAL IMAGES--> 8



CLUSTER--> 171 TOTAL IMAGES--> 2



CLUSTER--> 172 TOTAL IMAGES--> 7



CLUSTER--> 173 TOTAL IMAGES--> 4



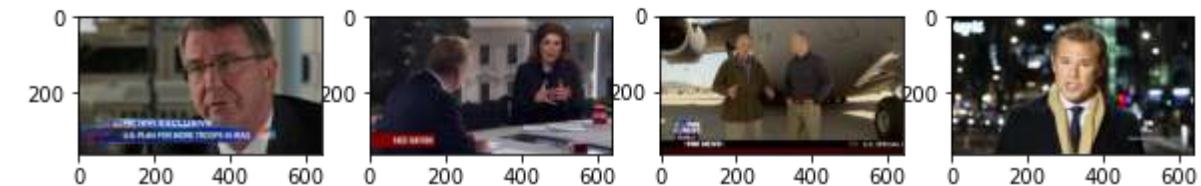
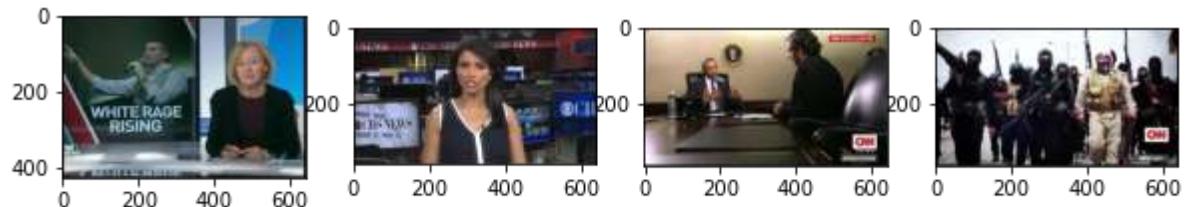
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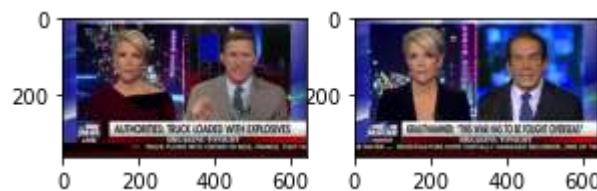
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CLUSTER--> 176 TOTAL IMAGES--> 8



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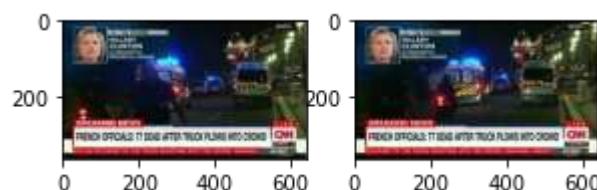
CLUSTER--> 178 TOTAL IMAGES--> 3



CLUSTER--> 179 TOTAL IMAGES--> 3



CLUSTER--> 180 TOTAL IMAGES--> 2



CLUSTER--> 181 TOTAL IMAGES--> 7



CLUSTER--> 182 TOTAL IMAGES--> 3



CLUSTER--> 183 TOTAL IMAGES--> 3



CLUSTER--> 184 TOTAL IMAGES--> 3



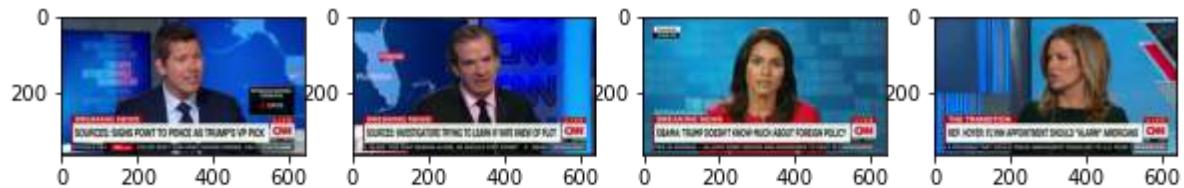
CLUSTER--> 185 TOTAL IMAGES--> 3



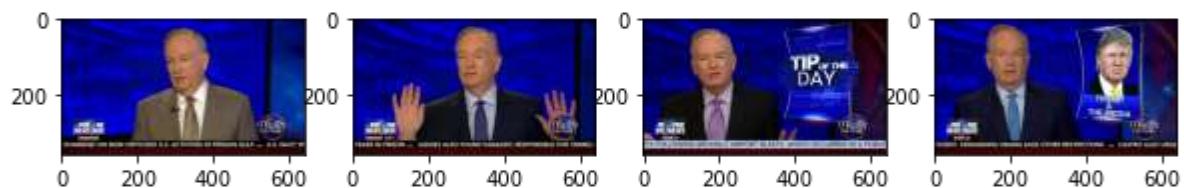
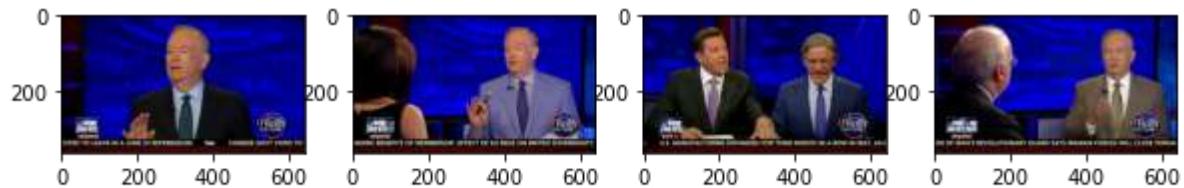
CLUSTER--> 186 TOTAL IMAGES--> 2



CLUSTER--> 187 TOTAL IMAGES--> 5



CLUSTER--> 188 TOTAL IMAGES--> 11



CLUSTER--> 189 TOTAL IMAGES--> 2



CLUSTER--> 190 TOTAL IMAGES--> 2



CLUSTER--> 191 TOTAL IMAGES--> 4



CLUSTER--> 192 TOTAL IMAGES--> 2



CLUSTER--> 193 TOTAL IMAGES--> 11



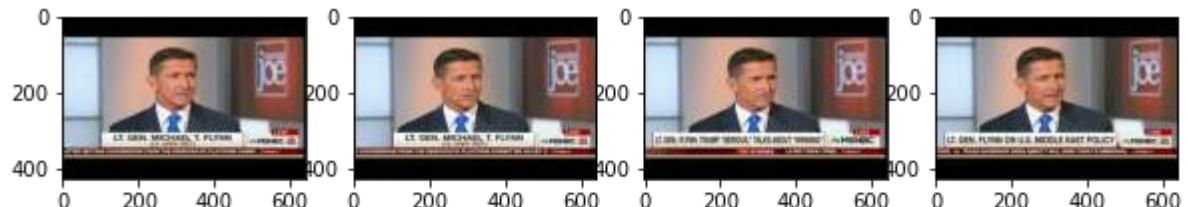
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CLUSTER--> 195 TOTAL IMAGES--> 3



CLUSTER--> 196 TOTAL IMAGES--> 6



CLUSTER--> 197 TOTAL IMAGES--> 4



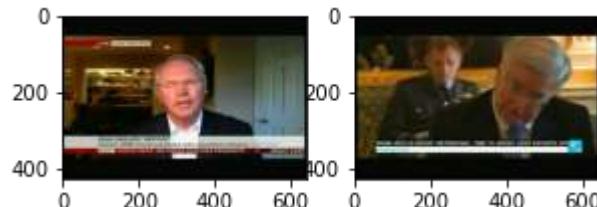
CLUSTER--> 198 TOTAL IMAGES--> 3



CLUSTER--> 199 TOTAL IMAGES--> 4



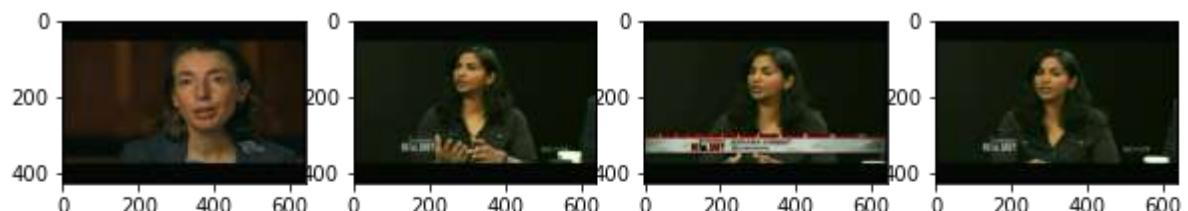
CLUSTER--> 200 TOTAL IMAGES--> 2



CLUSTER--> 201 TOTAL IMAGES--> 2



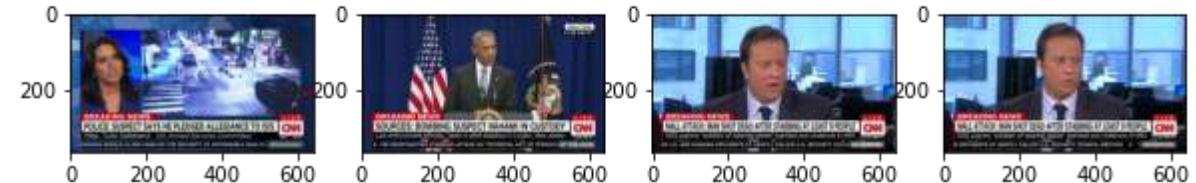
CLUSTER--> 202 TOTAL IMAGES--> 9



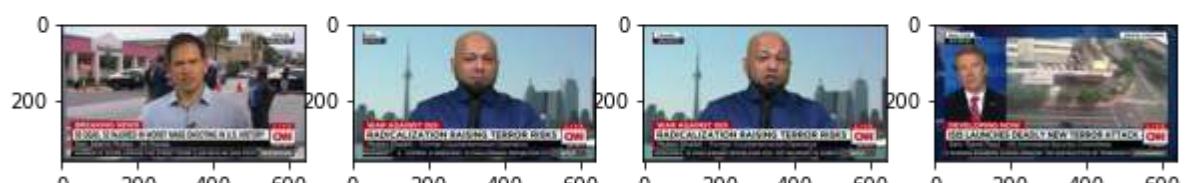
CLUSTER--> 203 TOTAL IMAGES--> 2



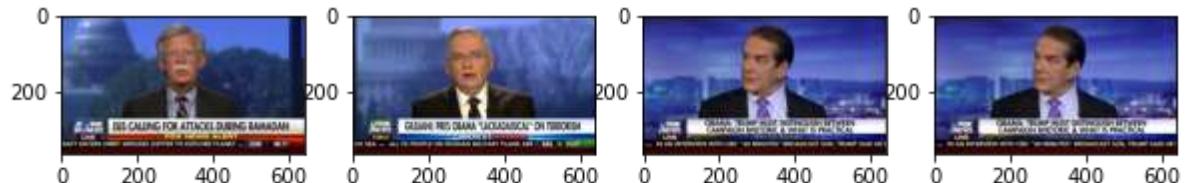
CLUSTER--> 204 TOTAL IMAGES--> 8



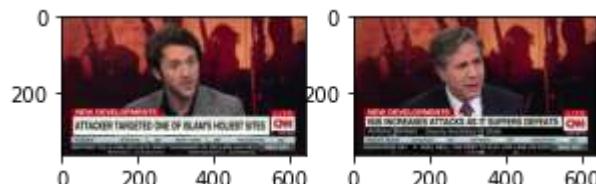
CLUSTER--> 205 TOTAL IMAGES--> 14



CLUSTER--> 206 TOTAL IMAGES--> 5



CLUSTER--> 207 TOTAL IMAGES--> 2



CLUSTER--> 208 TOTAL IMAGES--> 2



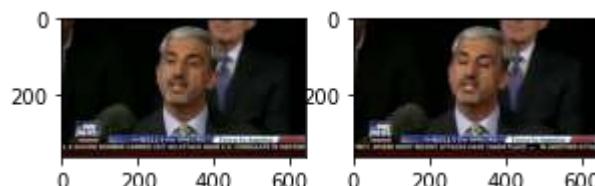
CLUSTER--> 209 TOTAL IMAGES--> 4



CLUSTER--> 210 TOTAL IMAGES--> 6



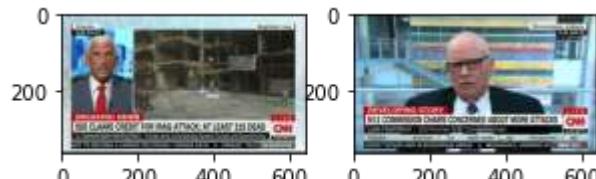
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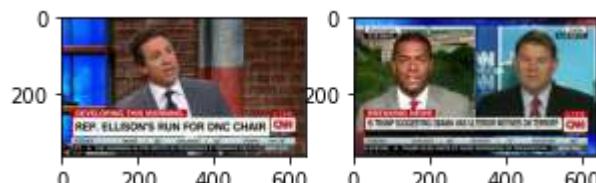
CLUSTER--> 212 TOTAL IMAGES--> 6



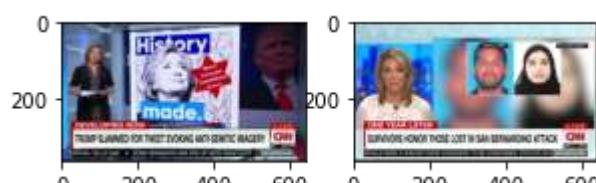
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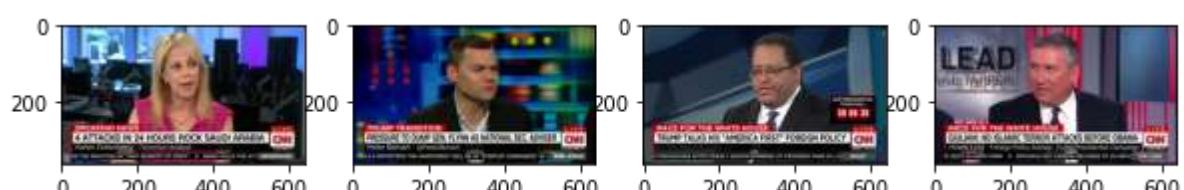
CLUSTER--> 214 TOTAL IMAGES--> 2



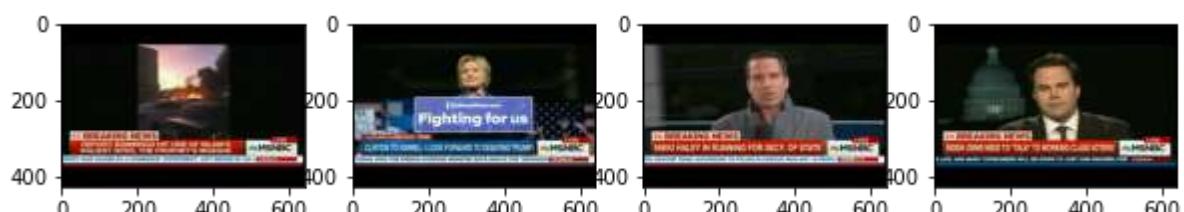
CLUSTER--> 215 TOTAL IMAGES--> 2



CLUSTER--> 216 TOTAL IMAGES--> 4



CLUSTER--> 217 TOTAL IMAGES--> 4

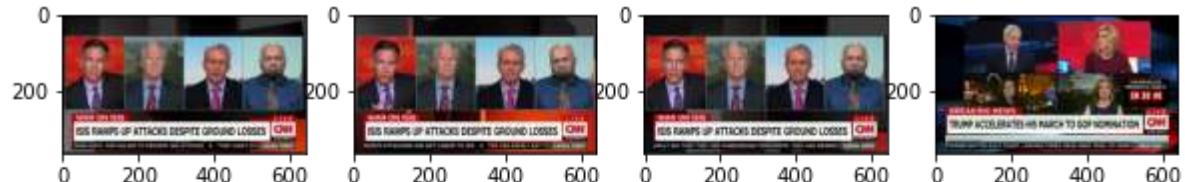


CLUSTER--> 218 TOTAL IMAGES--> 33

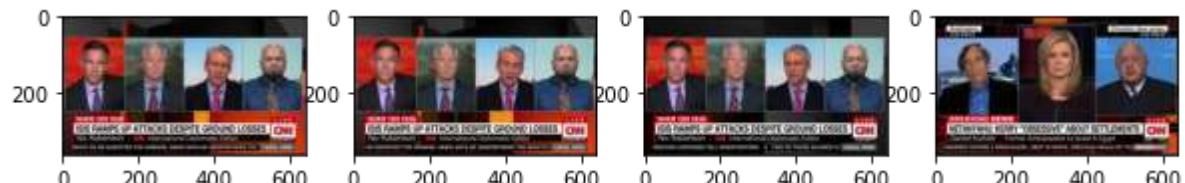




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CLUSTER--> 220 TOTAL IMAGES--> 4



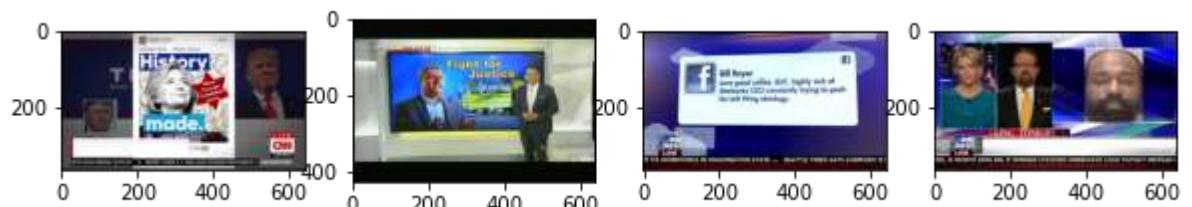
CLUSTER--> 221 TOTAL IMAGES--> 2



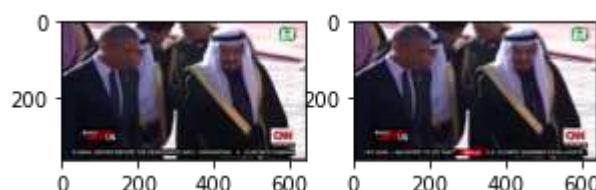
CLUSTER--> 222 TOTAL IMAGES--> 13



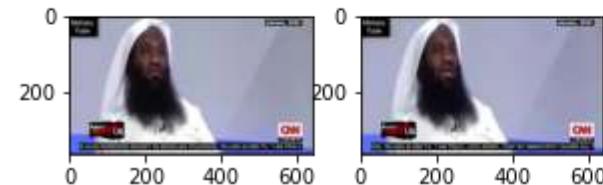
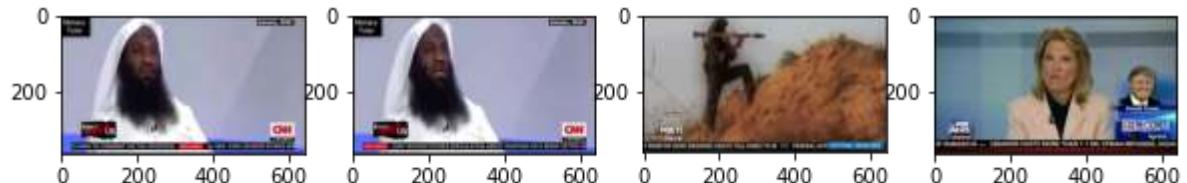
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CLUSTER--> 224 TOTAL IMAGES--> 2



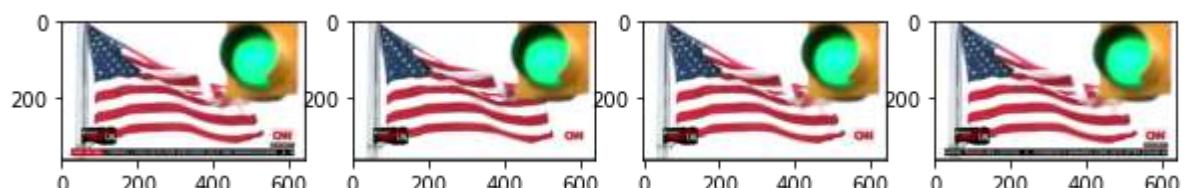
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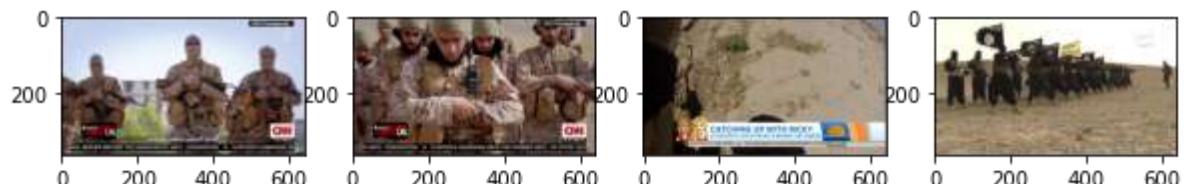
CLUSTER--> 226 TOTAL IMAGES--> 3



CLUSTER--> 227 TOTAL IMAGES--> 4



CLUSTER--> 228 TOTAL IMAGES--> 9



CLUSTER--> 229 TOTAL IMAGES--> 5



CLUSTER--> 230 TOTAL IMAGES--> 3



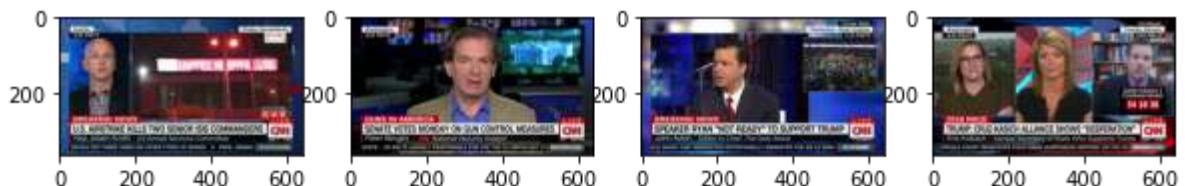
CLUSTER--> 231 TOTAL IMAGES--> 6



CLUSTER--> 232 TOTAL IMAGES--> 5



CLUSTER--> 233 TOTAL IMAGES--> 9



CLUSTER--> 234 TOTAL IMAGES--> 2



CLUSTER--> 235 TOTAL IMAGES--> 9



CLUSTER--> 236 TOTAL IMAGES--> 3



CLUSTER--> 237 TOTAL IMAGES--> 5



CLUSTER--> 238 TOTAL IMAGES--> 3



CLUSTER--> 239 TOTAL IMAGES--> 5



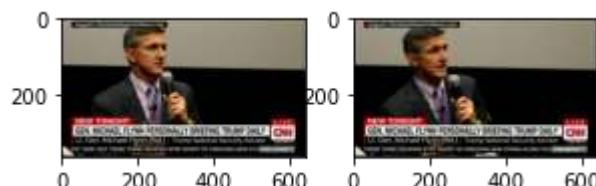
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CLUSTER--> 241 TOTAL IMAGES--> 7



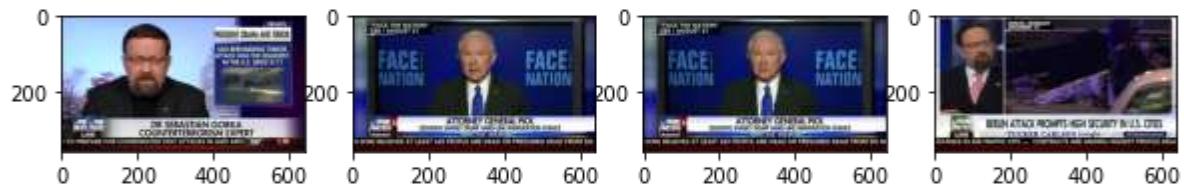
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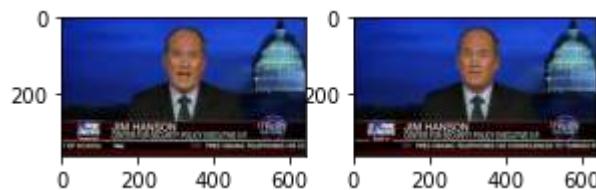
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CLUSTER--> 244 TOTAL IMAGES--> 9



CLUSTER--> 245 TOTAL IMAGES--> 2



CLUSTER--> 246 TOTAL IMAGES--> 3



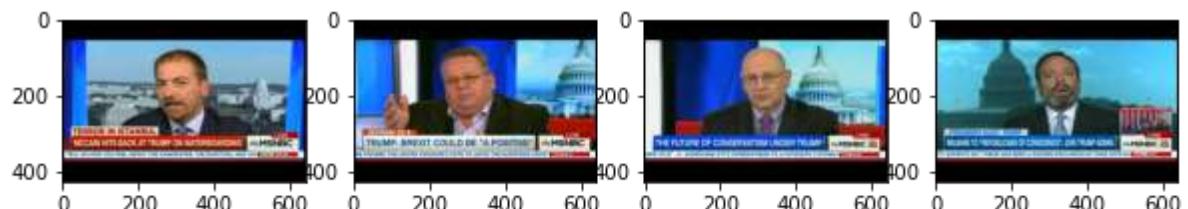
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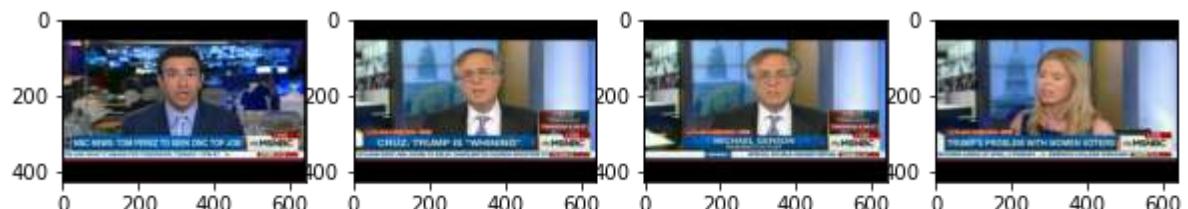
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CLUSTER--> 249 TOTAL IMAGES--> 5



CLUSTER--> 250 TOTAL IMAGES--> 7



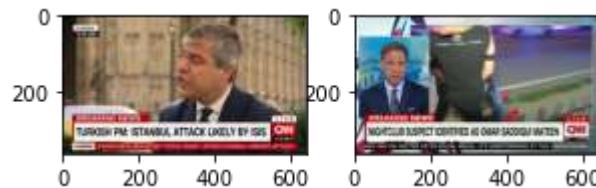
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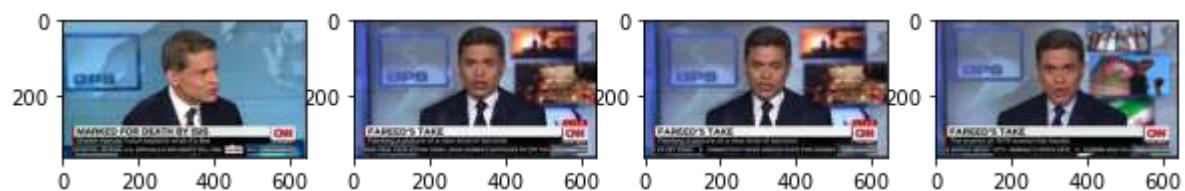
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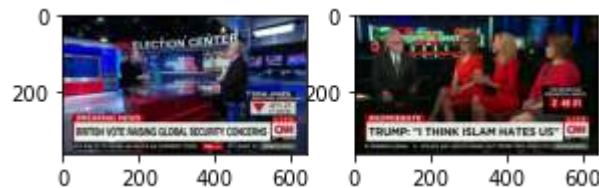
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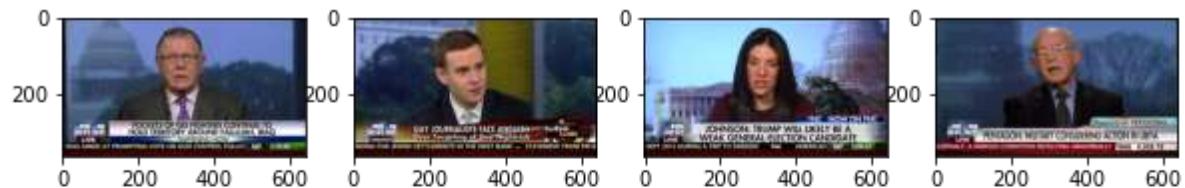
CLUSTER--> 255 TOTAL IMAGES--> 4



CLUSTER--> 256 TOTAL IMAGES--> 2



CLUSTER--> 257 TOTAL IMAGES--> 7



CLUSTER--> 258 TOTAL IMAGES--> 5



CLUSTER--> 259 TOTAL IMAGES--> 3



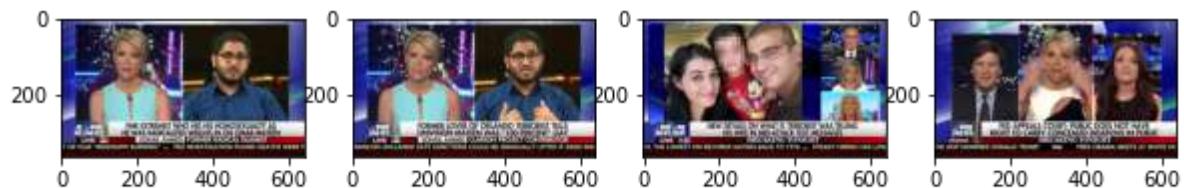
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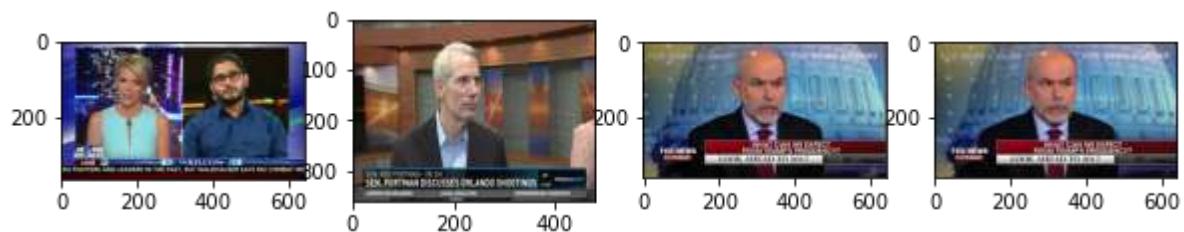
CLUSTER--> 261 TOTAL IMAGES--> 3



CLUSTER--> 262 TOTAL IMAGES--> 6



CLUSTER--> 263 TOTAL IMAGES--> 4



CLUSTER--> 264 TOTAL IMAGES--> 3



CLUSTER--> 265 TOTAL IMAGES--> 5



CLUSTER--> 266 TOTAL IMAGES--> 3



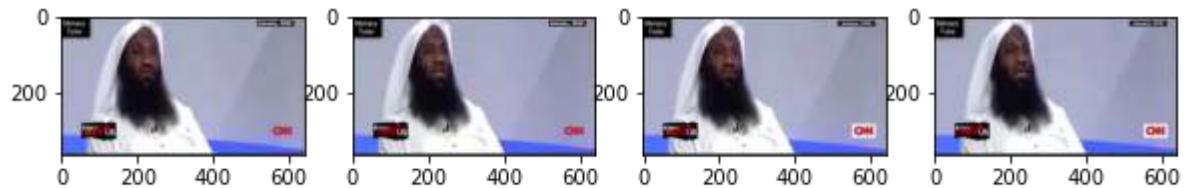
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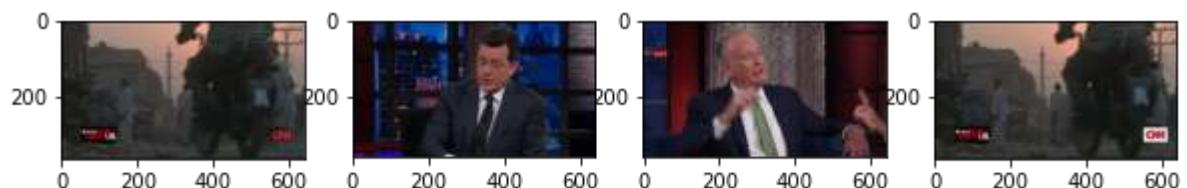
CLUSTER--> 268 TOTAL IMAGES--> 3



CLUSTER--> 269 TOTAL IMAGES--> 7



CLUSTER--> 270 TOTAL IMAGES--> 8



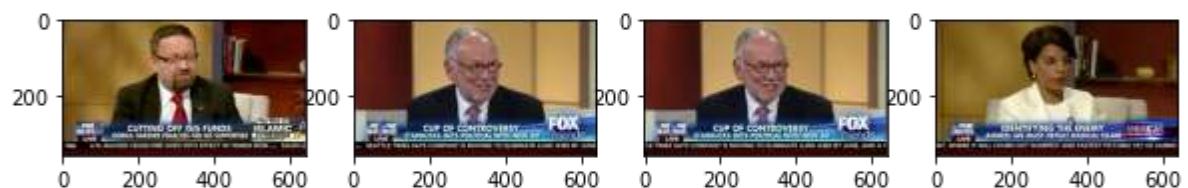
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CLUSTER--> 272 TOTAL IMAGES--> 3



CLUSTER--> 273 TOTAL IMAGES--> 12



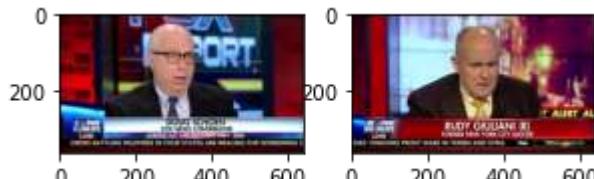
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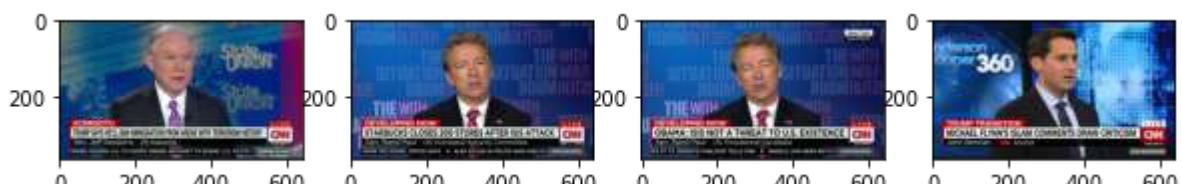
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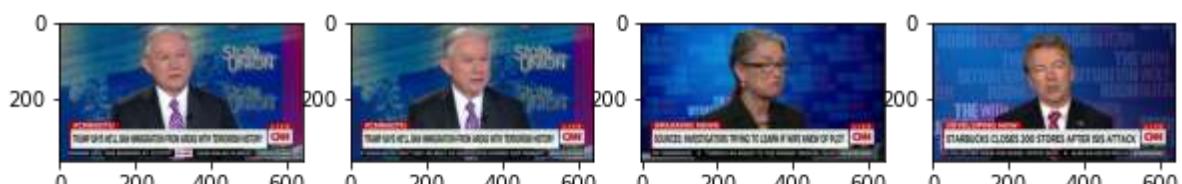
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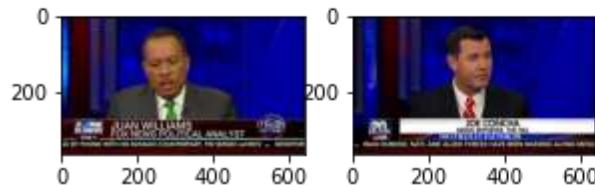
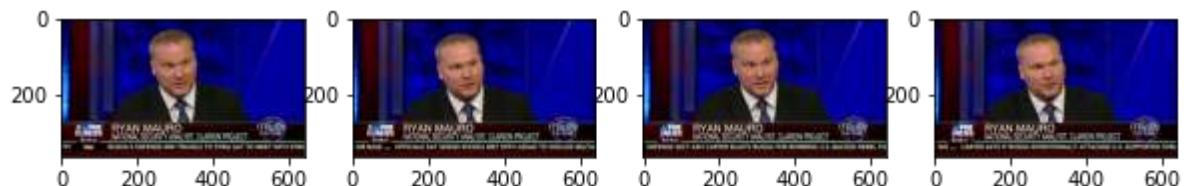
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CLUSTER--> 280 TOTAL IMAGES--> 4



CLUSTER--> 281 TOTAL IMAGES--> 6



CLUSTER--> 282 TOTAL IMAGES--> 2



CLUSTER--> 283 TOTAL IMAGES--> 3



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CLUSTER--> 285 TOTAL IMAGES--> 2



CLUSTER--> 286 TOTAL IMAGES--> 2



CLUSTER--> 287 TOTAL IMAGES--> 3



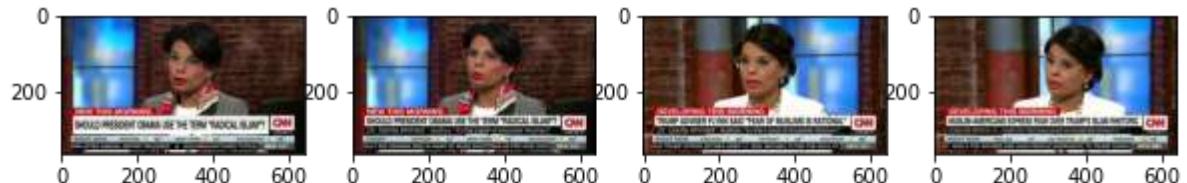
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CLUSTER--> 290 TOTAL IMAGES--> 5



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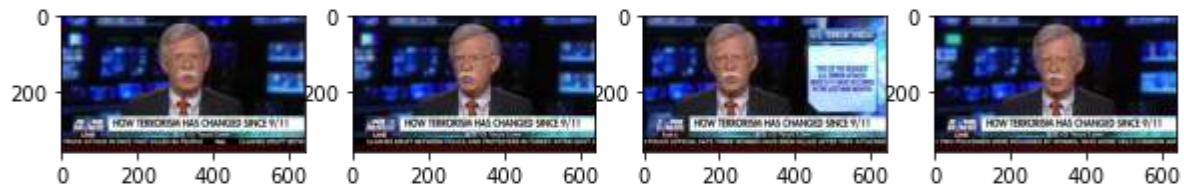
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CLUSTER--> 293 TOTAL IMAGES--> 2



CLUSTER--> 294 TOTAL IMAGES--> 9



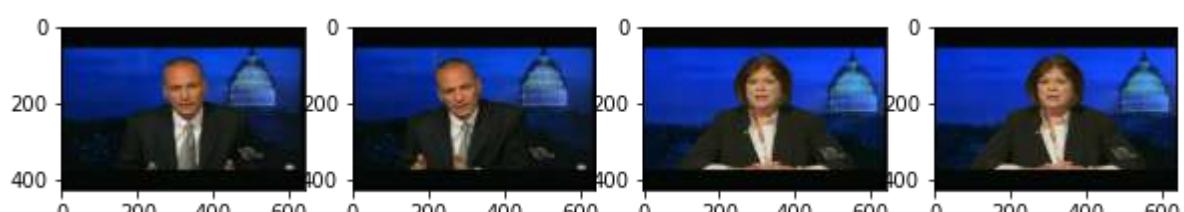
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CLUSTER--> 296 TOTAL IMAGES--> 3



CLUSTER--> 297 TOTAL IMAGES--> 4



CLUSTER--> 298 TOTAL IMAGES--> 3



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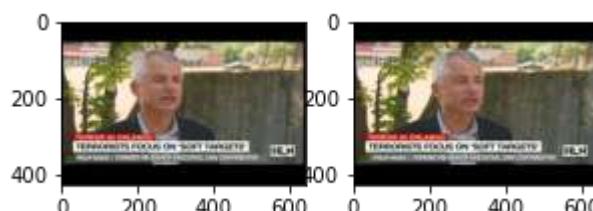
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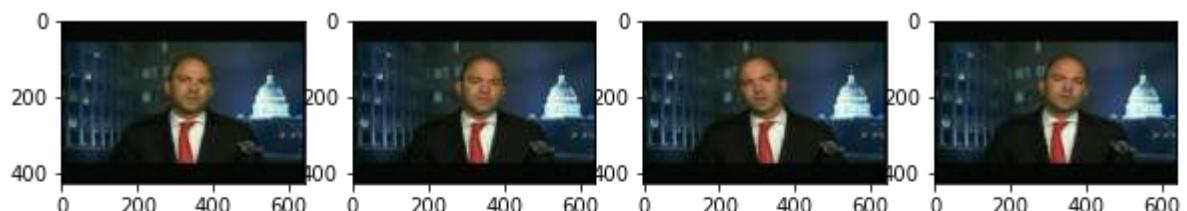
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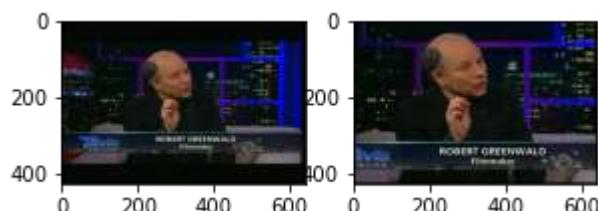
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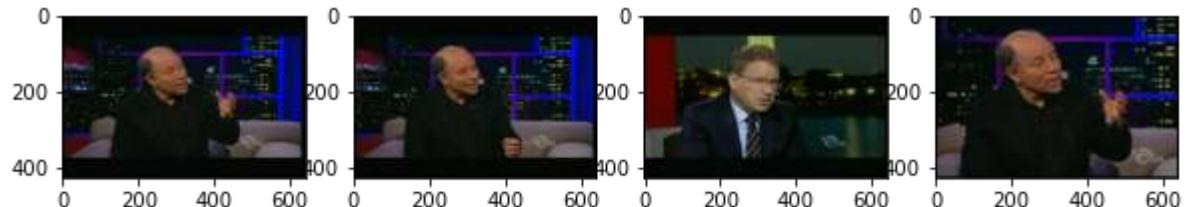
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CLUSTER--> 305 TOTAL IMAGES--> 2



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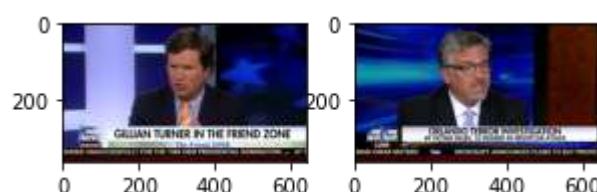
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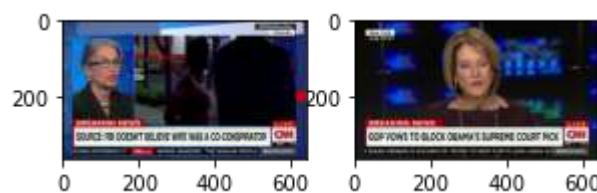
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CLUSTER--> 309 TOTAL IMAGES--> 2



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CLUSTER--> 311 TOTAL IMAGES--> 6



CLUSTER--> 312 TOTAL IMAGES--> 6



CLUSTER--> 313 TOTAL IMAGES--> 3



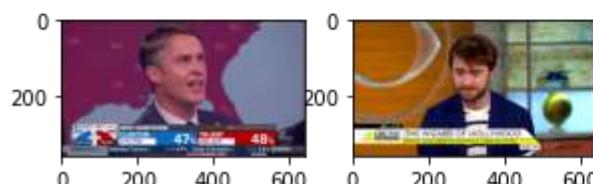
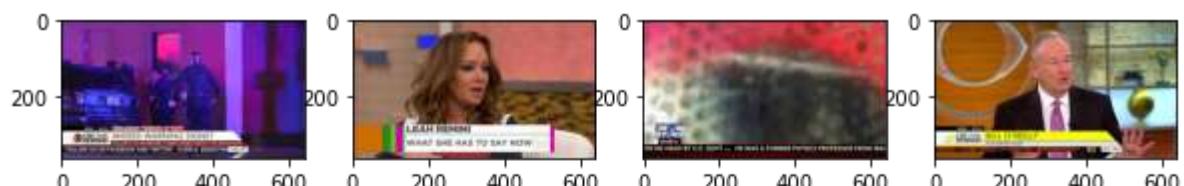
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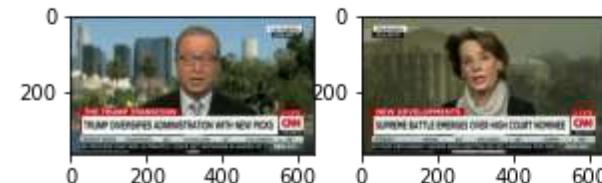
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CLUSTER--> 316 TOTAL IMAGES--> 6



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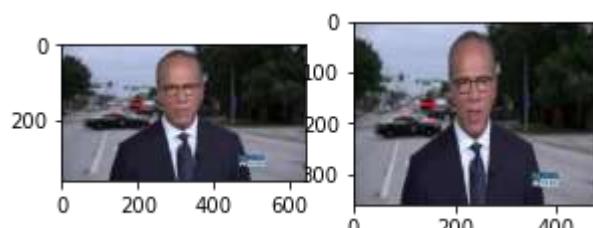
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CLUSTER--> 319 TOTAL IMAGES--> 2



CLUSTER--> 320 TOTAL IMAGES--> 2



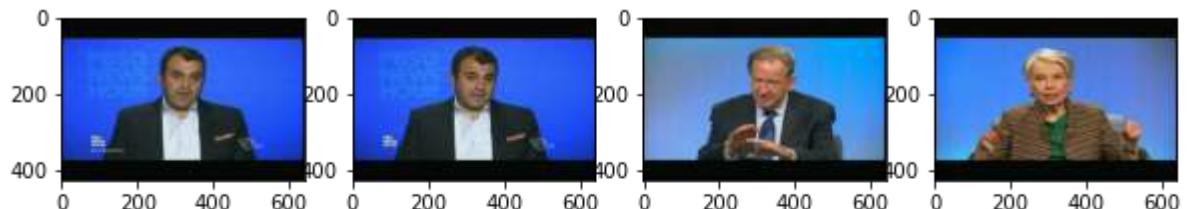
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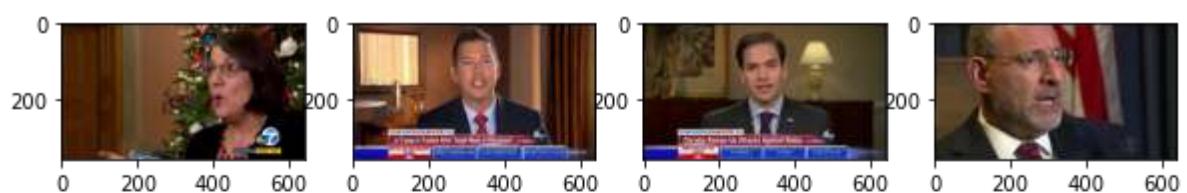
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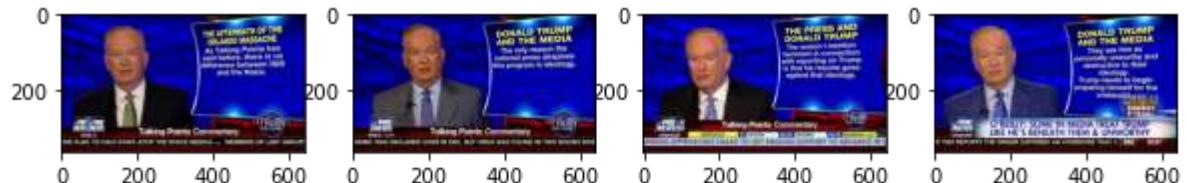
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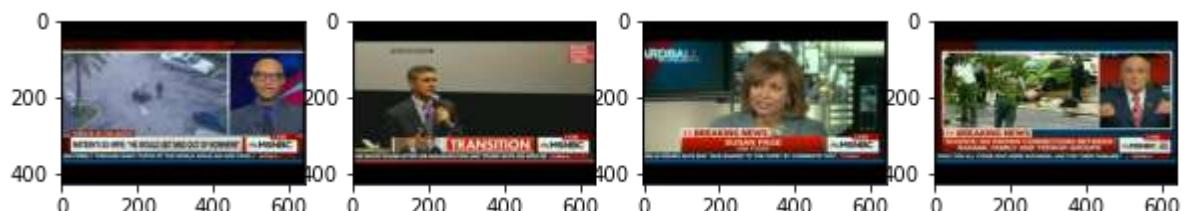
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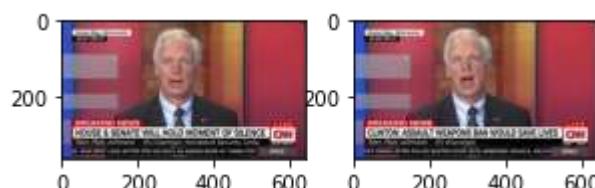
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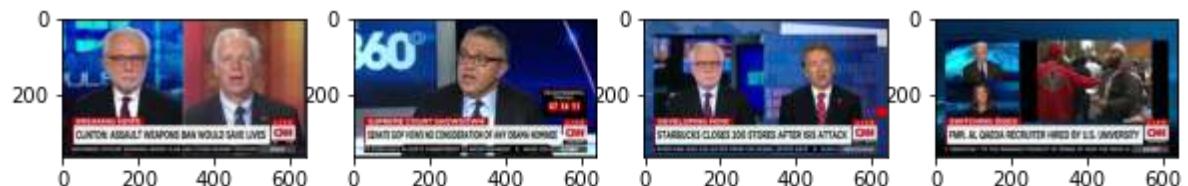
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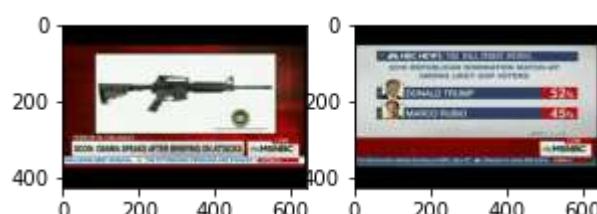
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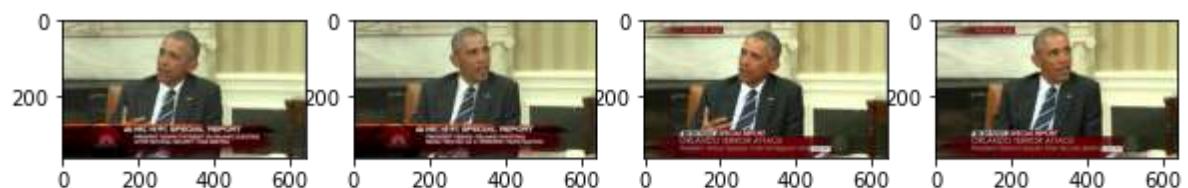
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CLUSTER--> 331 TOTAL IMAGES--> 3



CLUSTER--> 332 TOTAL IMAGES--> 5



CLUSTER--> 333 TOTAL IMAGES--> 3



CLUSTER--> 334 TOTAL IMAGES--> 2



CLUSTER--> 335 TOTAL IMAGES--> 4



CLUSTER--> 336 TOTAL IMAGES--> 2



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CLUSTER--> 338 TOTAL IMAGES--> 2



CLUSTER--> 339 TOTAL IMAGES--> 5



CLUSTER--> 340 TOTAL IMAGES--> 2



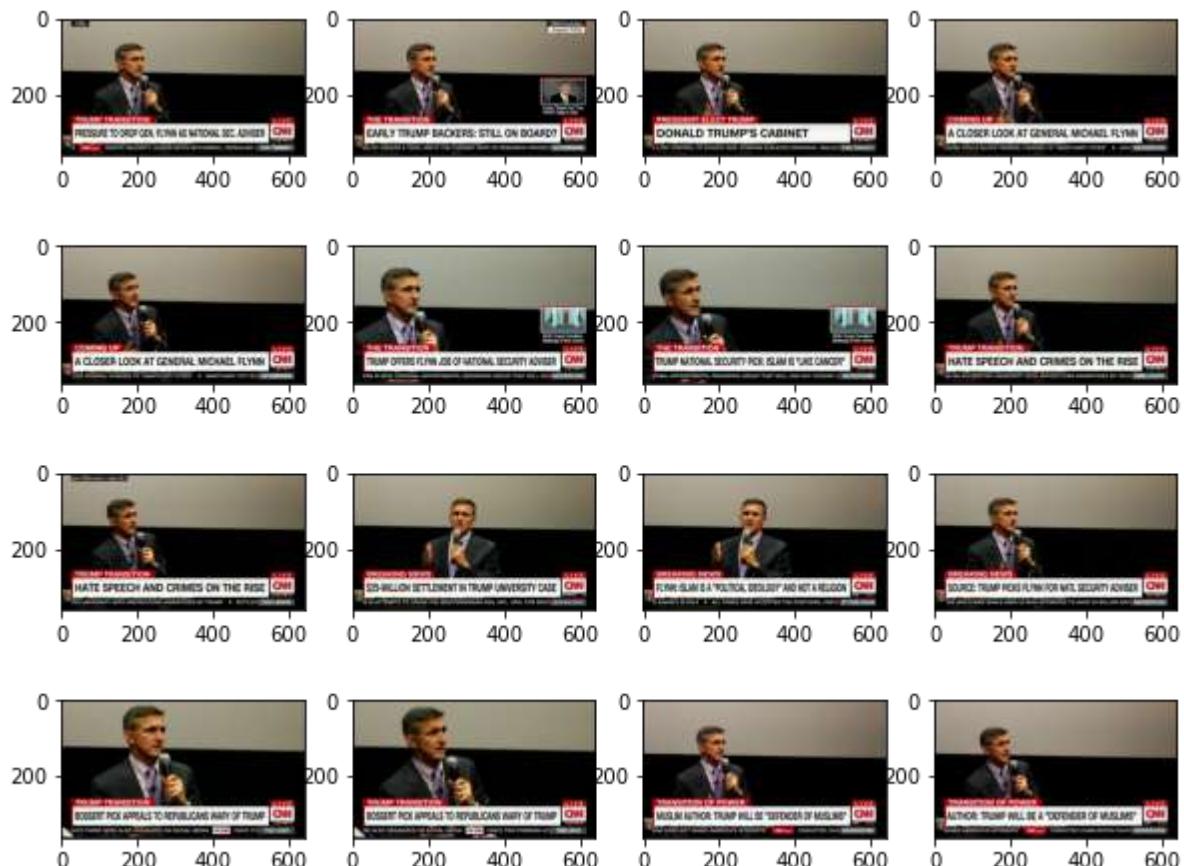
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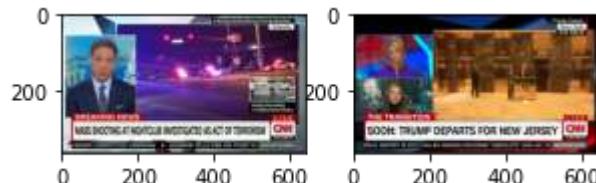
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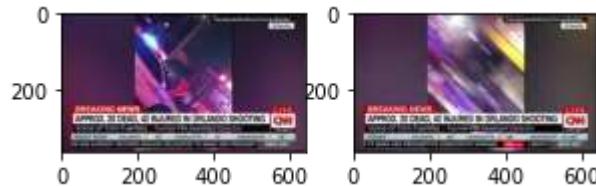
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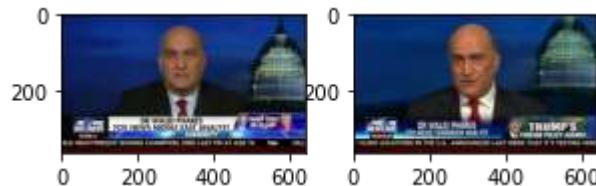
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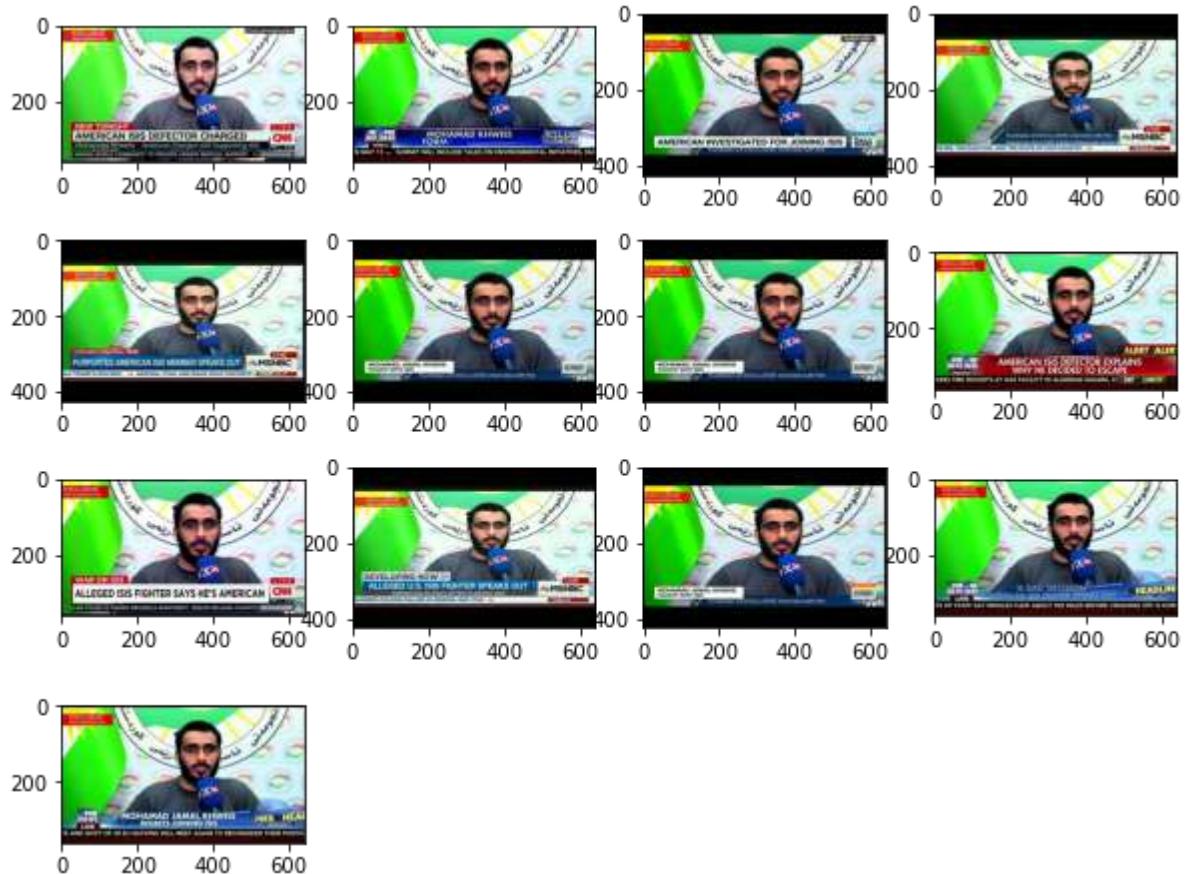
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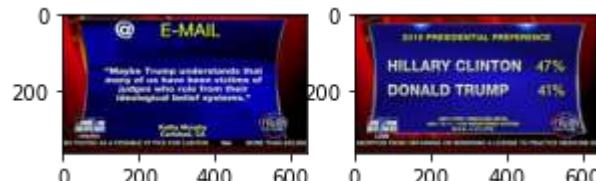
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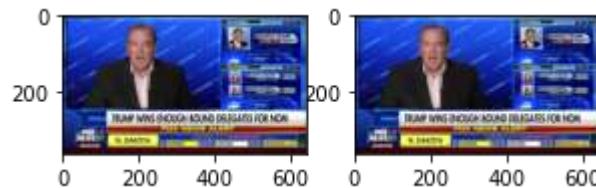
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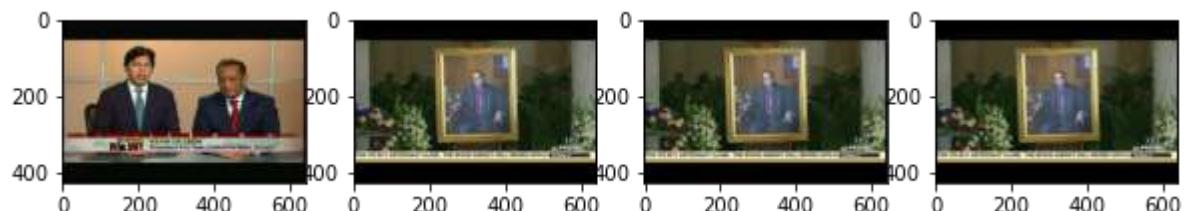
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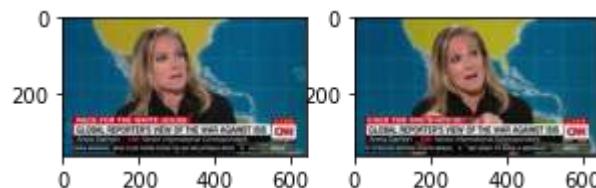
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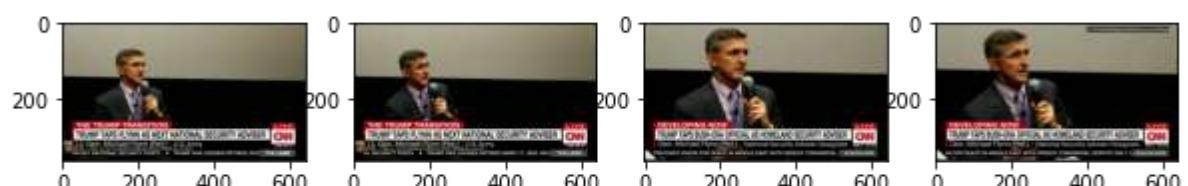
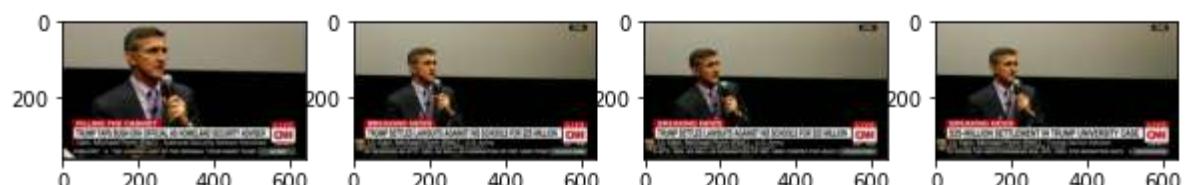
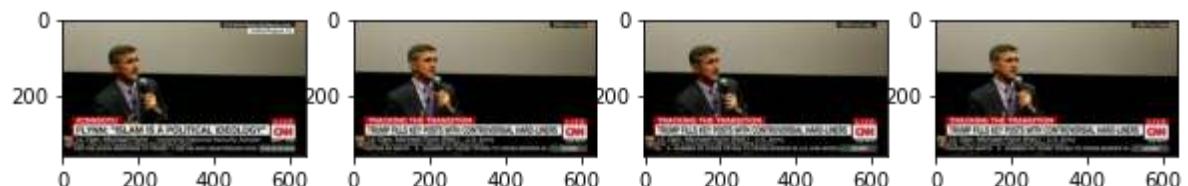
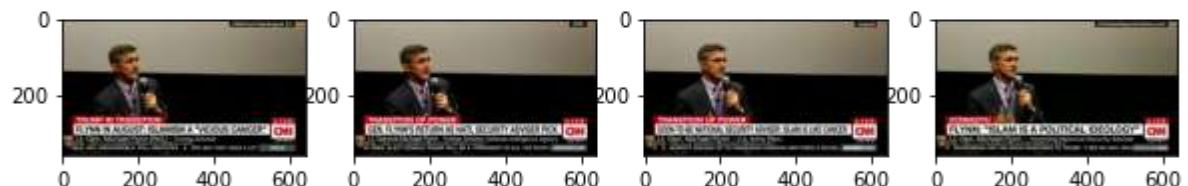
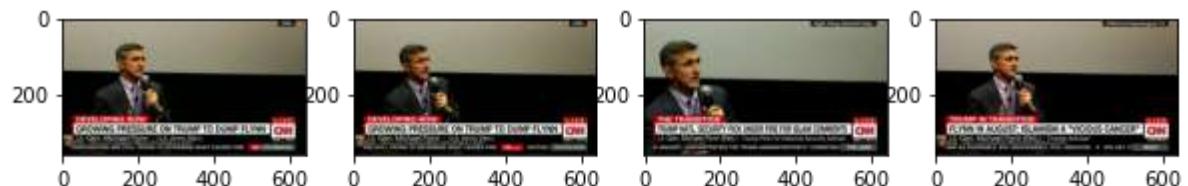
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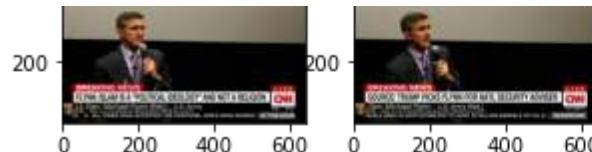


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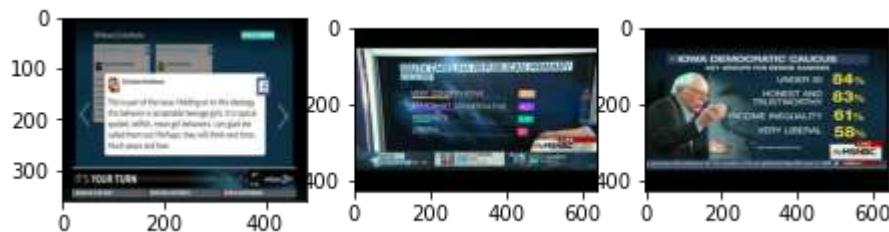


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CLUSTER--> 355 TOTAL IMAGES--> 3



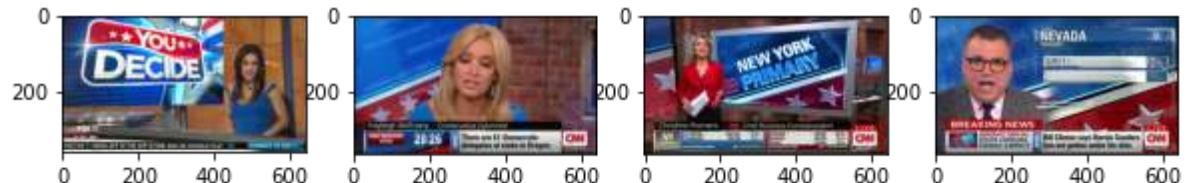
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CLUSTER--> 359 TOTAL IMAGES--> 3



CLUSTER--> 360 TOTAL IMAGES--> 6



CLUSTER--> 361 TOTAL IMAGES--> 2



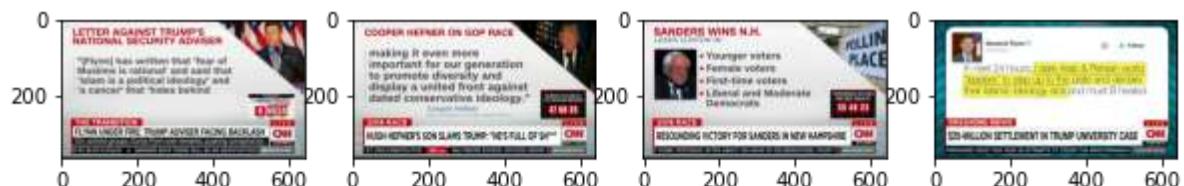
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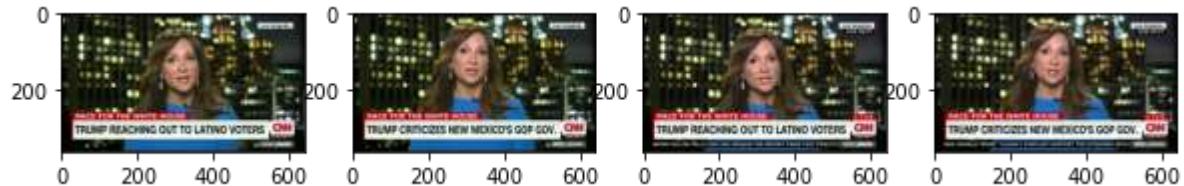
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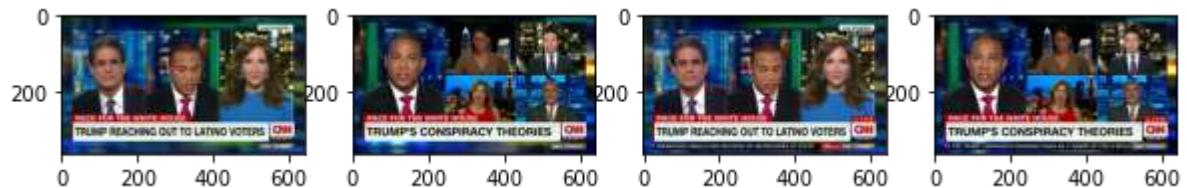
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CLUSTER--> 365 TOTAL IMAGES--> 4



CLUSTER--> 366 TOTAL IMAGES--> 4



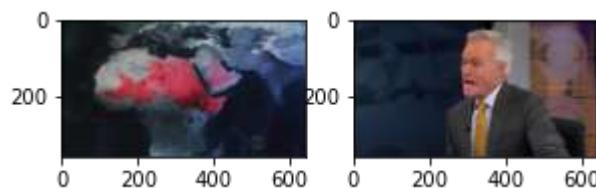
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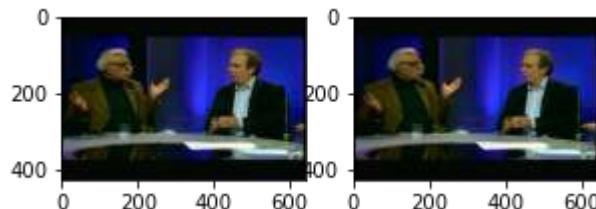
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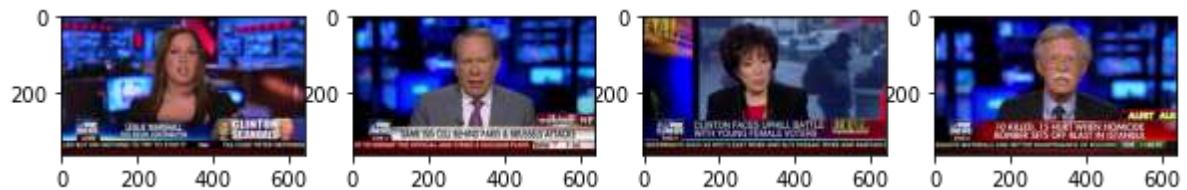
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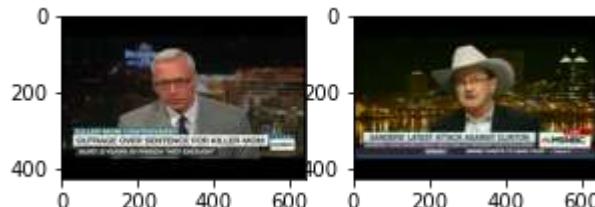
CLUSTER--> 370 TOTAL IMAGES--> 2



CLUSTER--> 371 TOTAL IMAGES--> 4



CLUSTER--> 372 TOTAL IMAGES--> 2



CLUSTER--> 373 TOTAL IMAGES--> 4



CLUSTER--> 374 TOTAL IMAGES--> 3



CLUSTER--> 375 TOTAL IMAGES--> 9



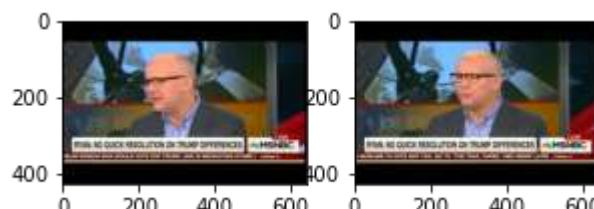
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CLUSTER--> 377 TOTAL IMAGES--> 3



CLUSTER--> 378 TOTAL IMAGES--> 2



CLUSTER--> 379 TOTAL IMAGES--> 3



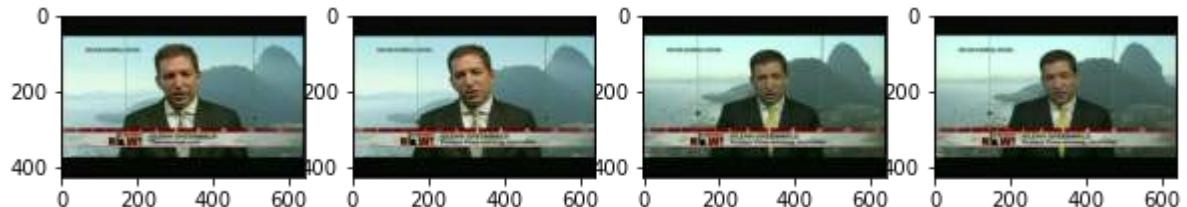
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CLUSTER--> 381 TOTAL IMAGES--> 3



CLUSTER--> 382 TOTAL IMAGES--> 4



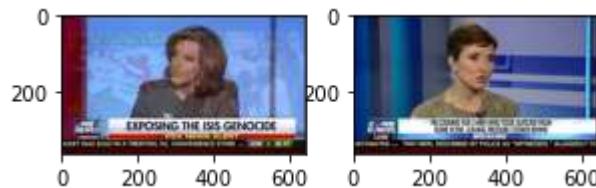
CLUSTER--> 383 TOTAL IMAGES--> 9



CLUSTER--> 384 TOTAL IMAGES--> 5



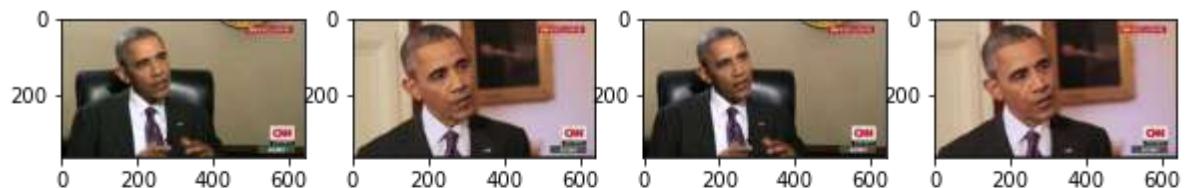
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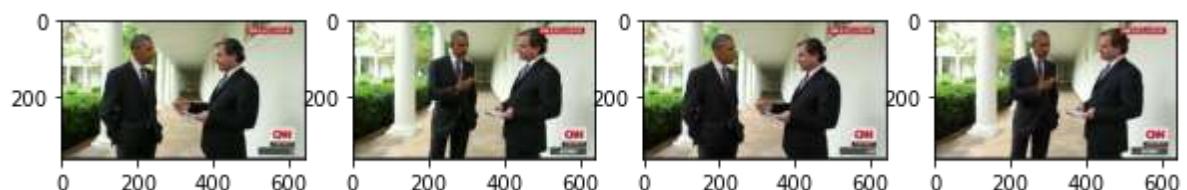
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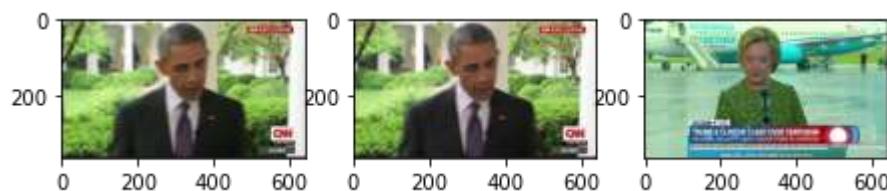
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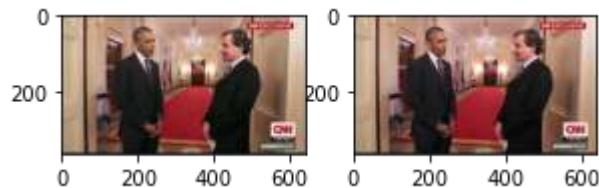
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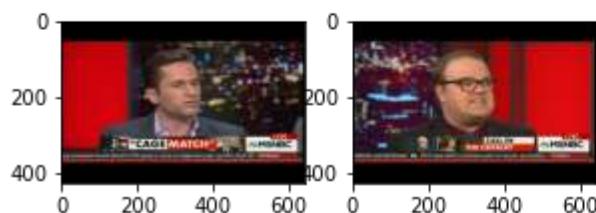
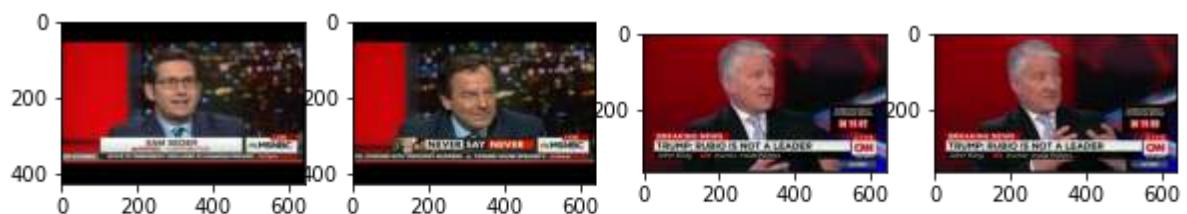
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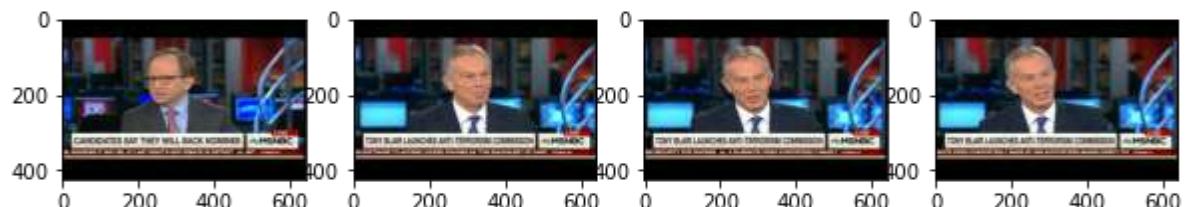
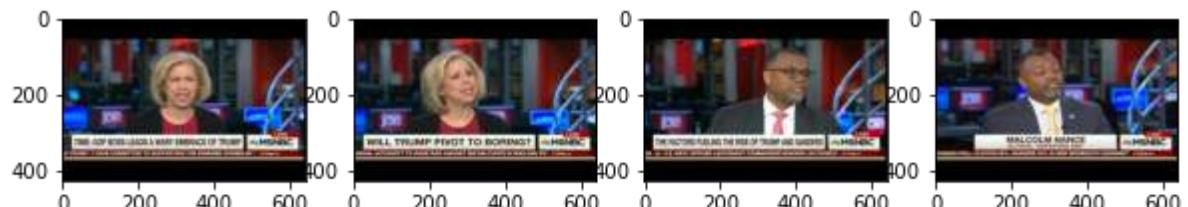
CLUSTER--> 391 TOTAL IMAGES--> 3



CLUSTER--> 392 TOTAL IMAGES--> 6



CLUSTER--> 393 TOTAL IMAGES--> 10



CLUSTER--> 394 TOTAL IMAGES--> 4



CLUSTER--> 395 TOTAL IMAGES--> 3



CLUSTER--> 396 TOTAL IMAGES--> 3



CLUSTER--> 397 TOTAL IMAGES--> 3



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CLUSTER--> 400 TOTAL IMAGES--> 3



CLUSTER--> 401 TOTAL IMAGES--> 2



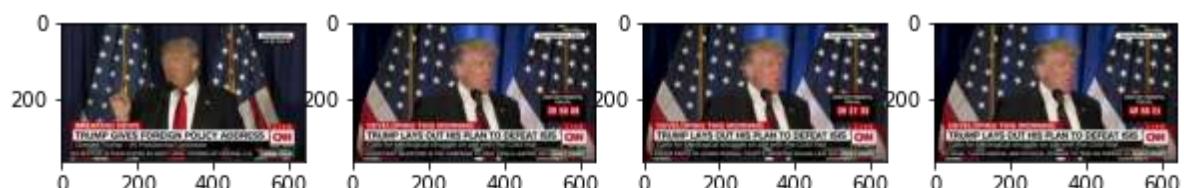
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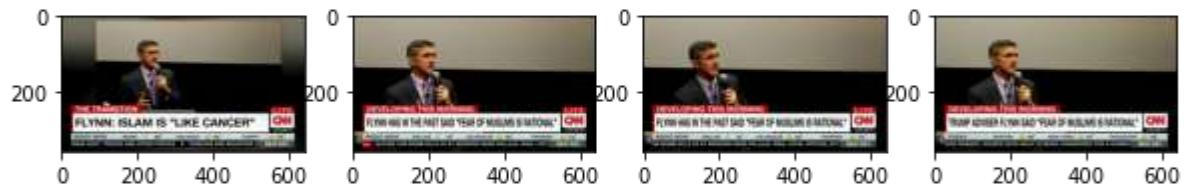
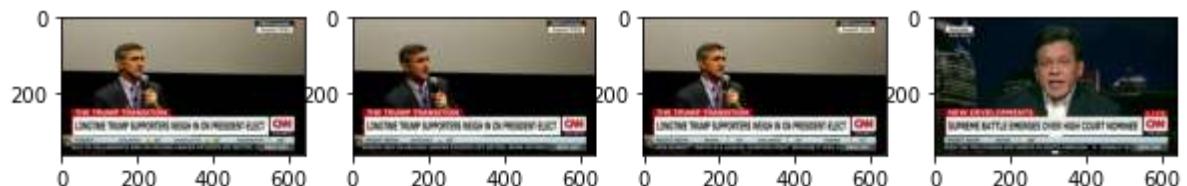
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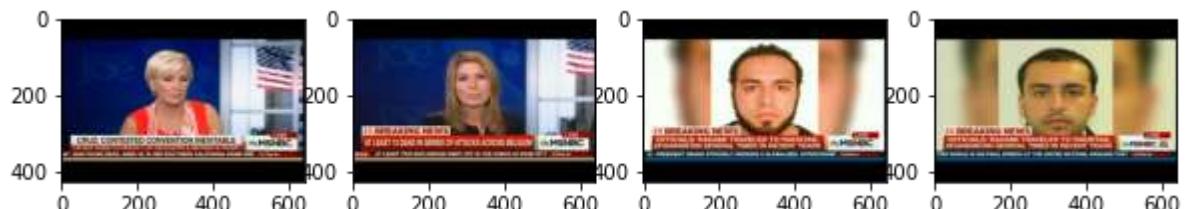
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CLUSTER--> 406 TOTAL IMAGES--> 9



CLUSTER--> 407 TOTAL IMAGES--> 4



CLUSTER--> 408 TOTAL IMAGES--> 4



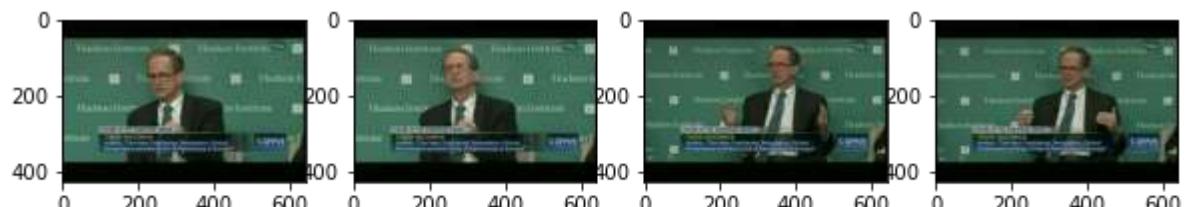
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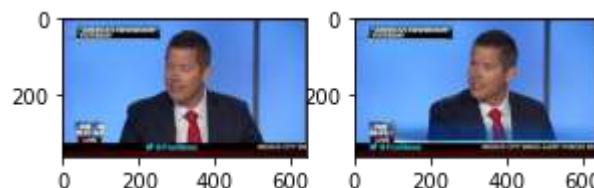
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CLUSTER--> 412 TOTAL IMAGES--> 3



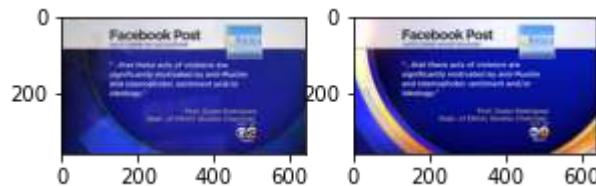
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CLUSTER--> 414 TOTAL IMAGES--> 4



CLUSTER--> 415 TOTAL IMAGES--> 2



CLUSTER--> 416 TOTAL IMAGES--> 3



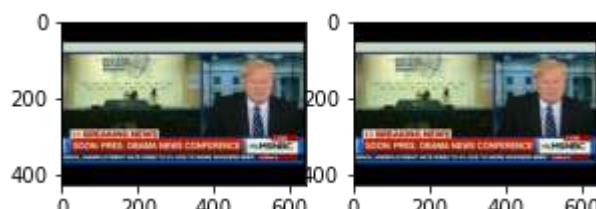
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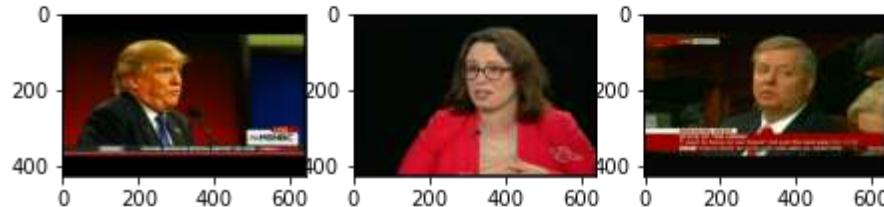
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CLUSTER--> 420 TOTAL IMAGES--> 4



CLUSTER--> 421 TOTAL IMAGES--> 7



CLUSTER--> 422 TOTAL IMAGES--> 2



CLUSTER--> 423 TOTAL IMAGES--> 4



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CLUSTER--> 425 TOTAL IMAGES--> 2



CLUSTER--> 426 TOTAL IMAGES--> 7



CLUSTER--> 427 TOTAL IMAGES--> 2



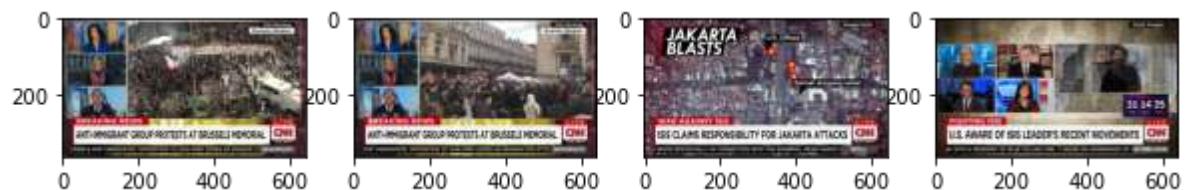
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CLUSTER--> 429 TOTAL IMAGES--> 3



CLUSTER--> 430 TOTAL IMAGES--> 4



CLUSTER--> 431 TOTAL IMAGES--> 2



CLUSTER--> 432 TOTAL IMAGES--> 4



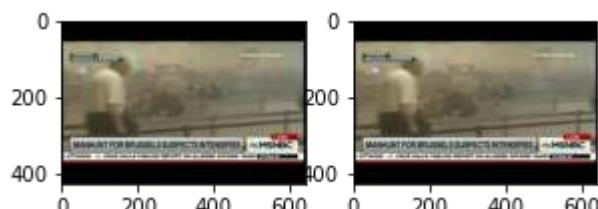
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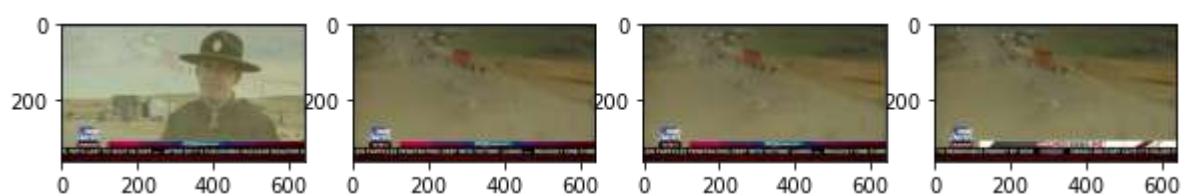
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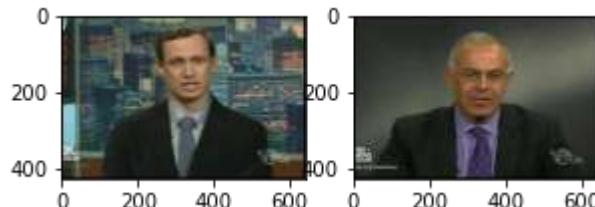
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CLUSTER--> 436 TOTAL IMAGES--> 4



CLUSTER--> 437 TOTAL IMAGES--> 2



CLUSTER--> 438 TOTAL IMAGES--> 2



CLUSTER--> 439 TOTAL IMAGES--> 4



CLUSTER--> 440 TOTAL IMAGES--> 9



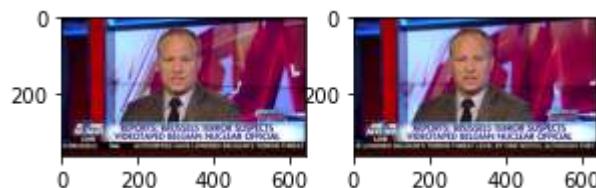
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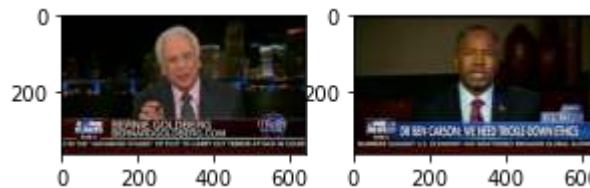
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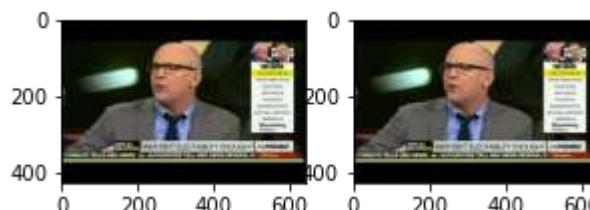
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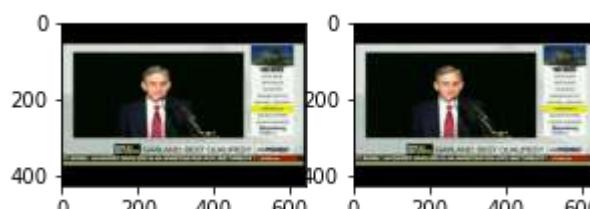
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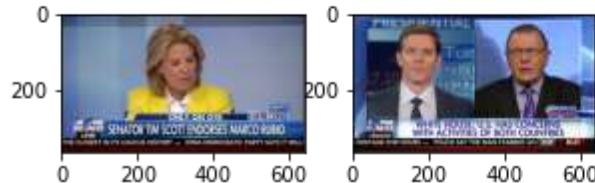
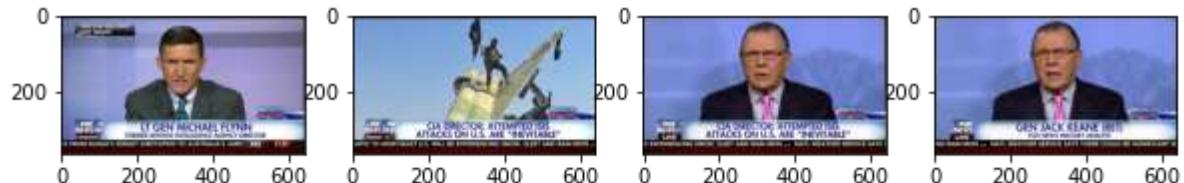
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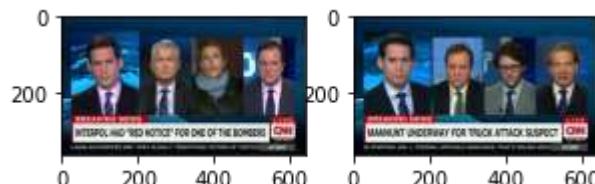
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CLUSTER--> 448 TOTAL IMAGES--> 6



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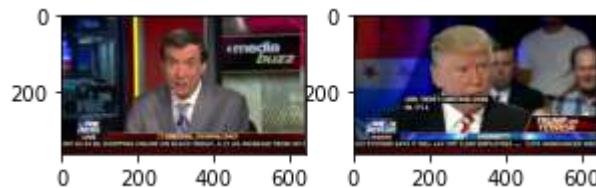
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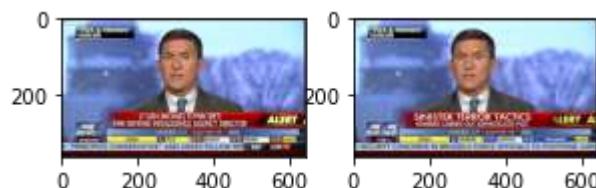
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CLUSTER--> 452 TOTAL IMAGES--> 2



CLUSTER--> 453 TOTAL IMAGES--> 2



CLUSTER--> 454 TOTAL IMAGES--> 2



CLUSTER--> 455 TOTAL IMAGES--> 3



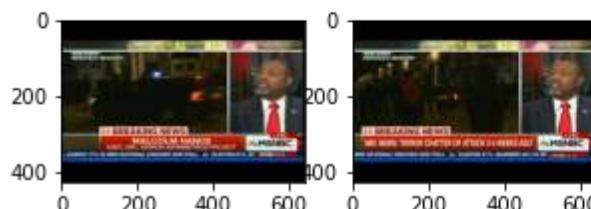
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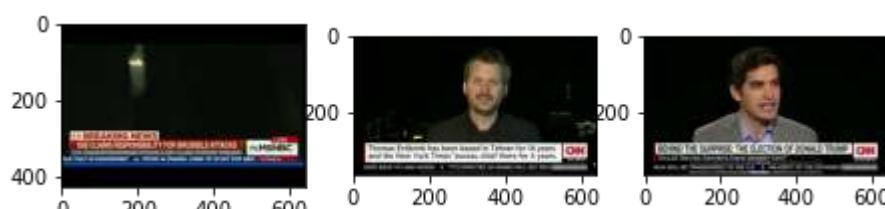
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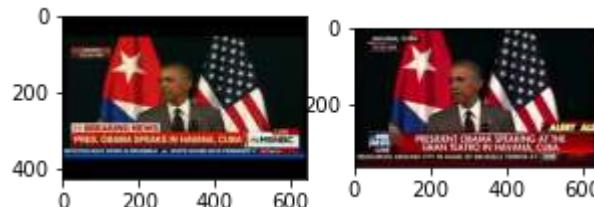
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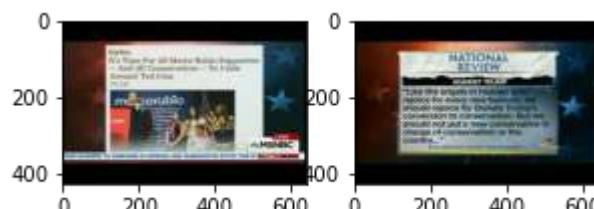
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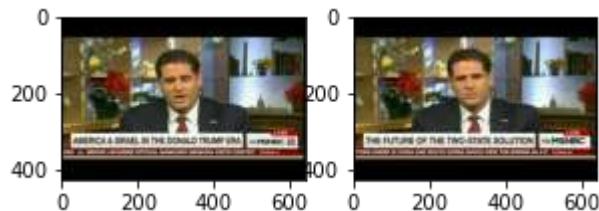
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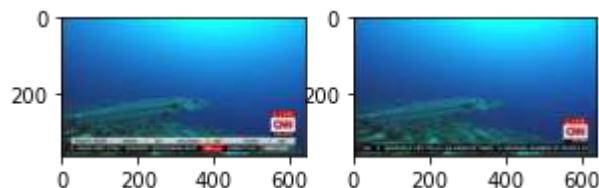
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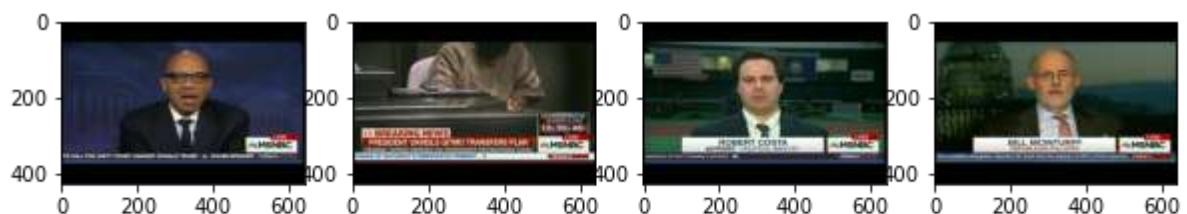
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CLUSTER--> 467 TOTAL IMAGES--> 2



CLUSTER--> 468 TOTAL IMAGES--> 5



CLUSTER--> 469 TOTAL IMAGES--> 3



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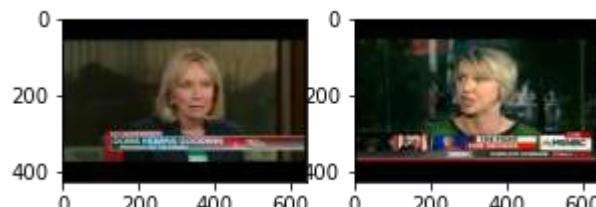
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CLUSTER--> 472 TOTAL IMAGES--> 3



CLUSTER--> 473 TOTAL IMAGES--> 2



CLUSTER--> 474 TOTAL IMAGES--> 2



CLUSTER--> 475 TOTAL IMAGES--> 2



CLUSTER--> 476 TOTAL IMAGES--> 3



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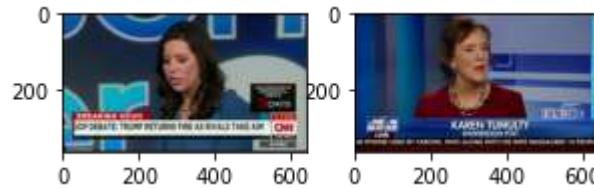
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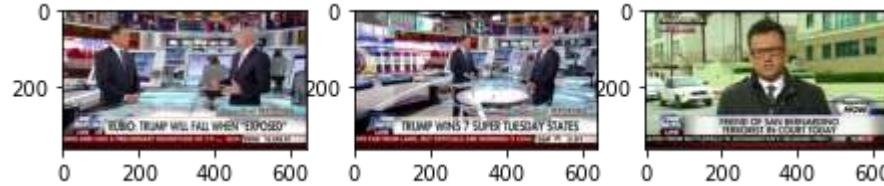
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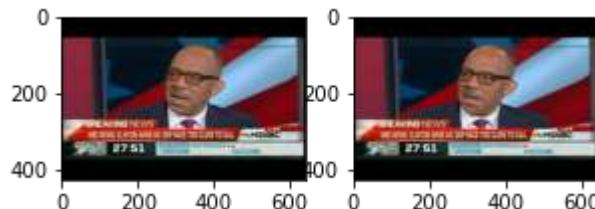
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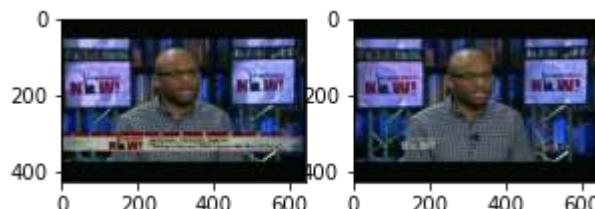
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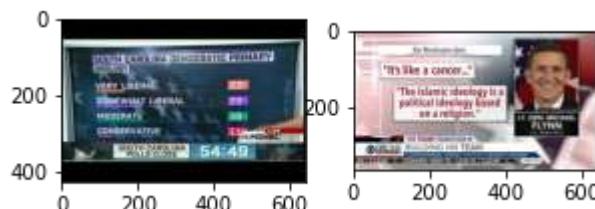
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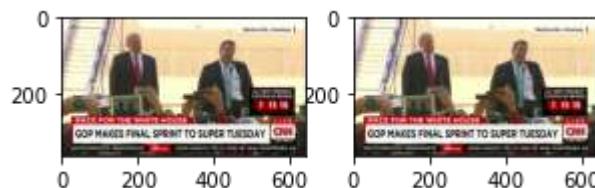
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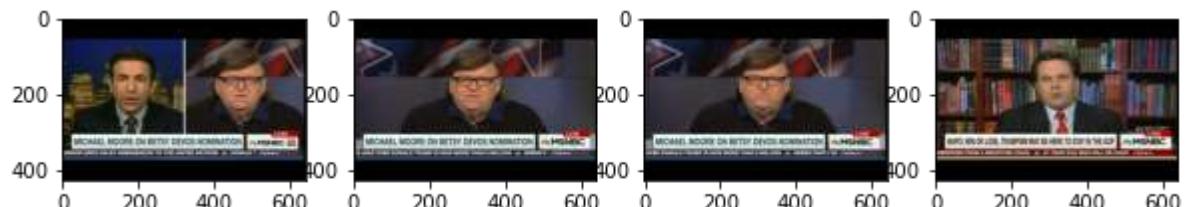
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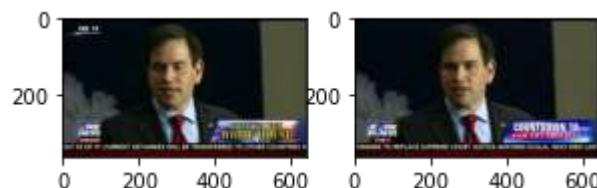
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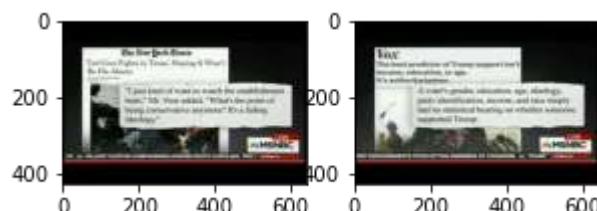
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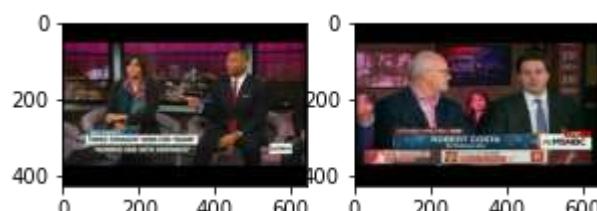
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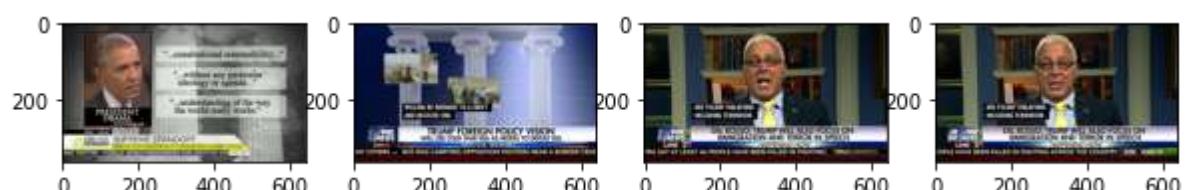
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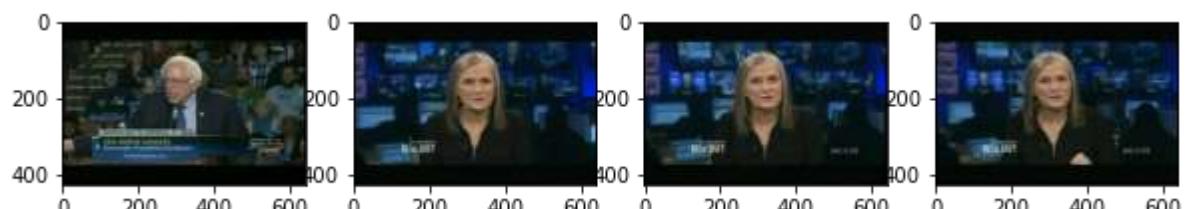
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CLUSTER--> 498 TOTAL IMAGES--> 4



CLUSTER--> 499 TOTAL IMAGES--> 2



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CLUSTER--> 502 TOTAL IMAGES--> 5



CLUSTER--> 503 TOTAL IMAGES--> 3



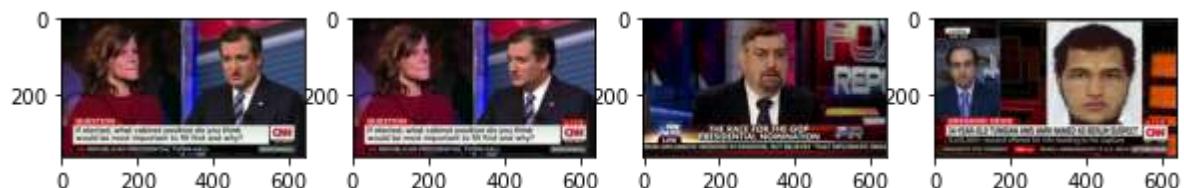
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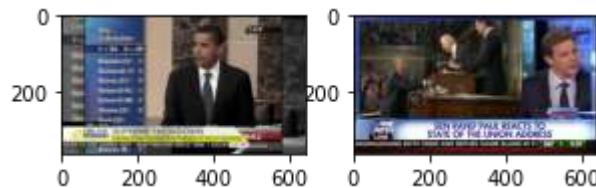
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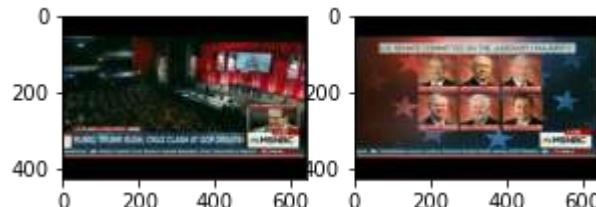
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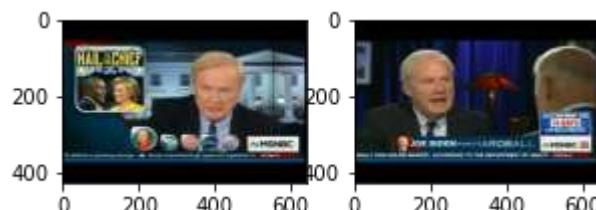
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CLUSTER--> 512 TOTAL IMAGES--> 5



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CLUSTER--> 516 TOTAL IMAGES--> 3



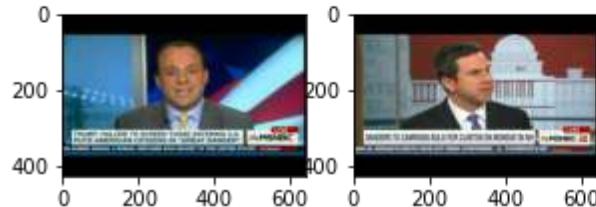
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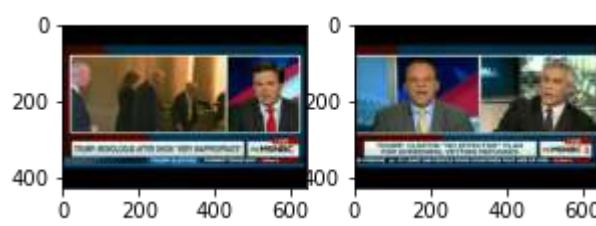
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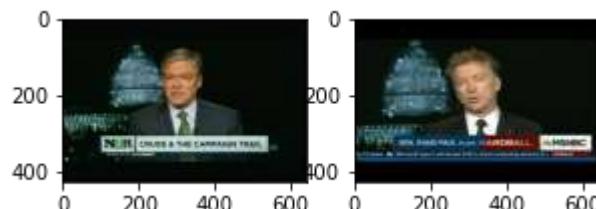
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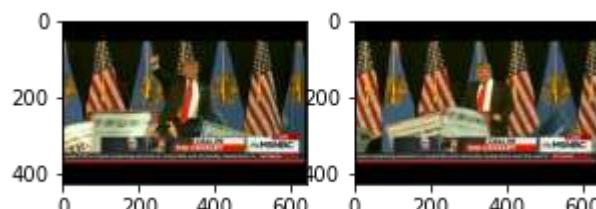
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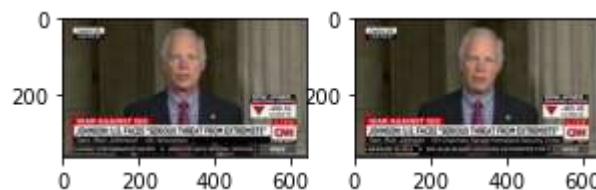
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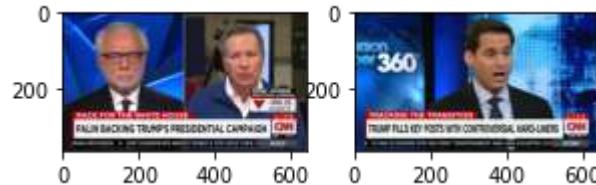
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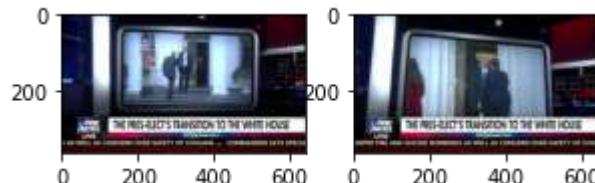
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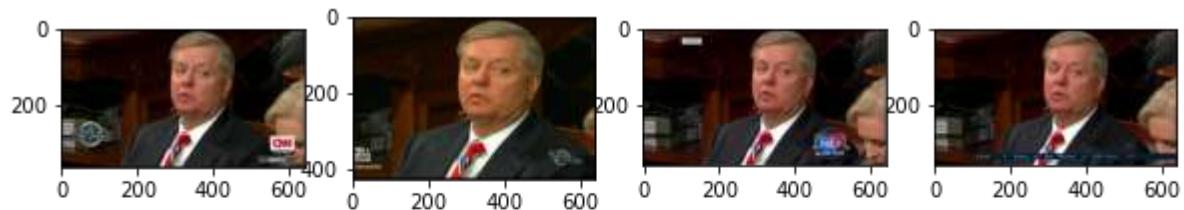
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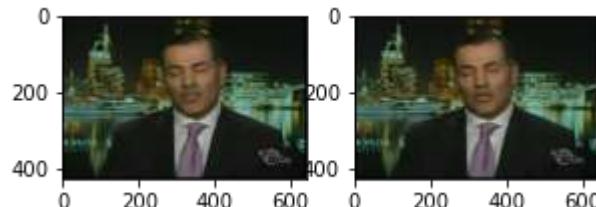
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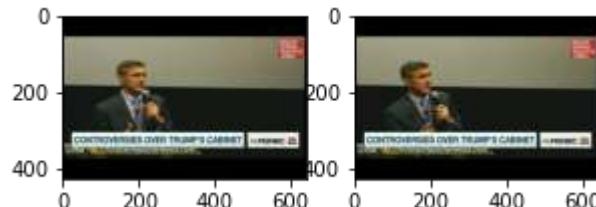
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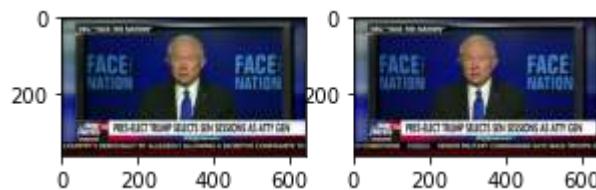
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CLUSTER--> 540 TOTAL IMAGES--> 2



CLUSTER--> 541 TOTAL IMAGES--> 2



CLUSTER--> 542 TOTAL IMAGES--> 3



CLUSTER--> 543 TOTAL IMAGES--> 3



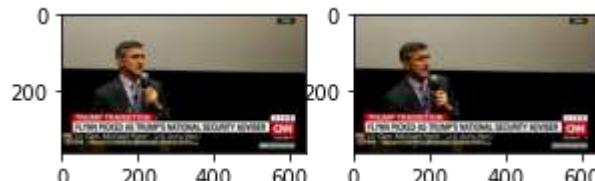
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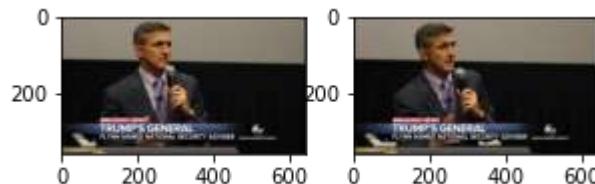
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CLUSTER--> 546 TOTAL IMAGES--> 2



CLUSTER--> 547 TOTAL IMAGES--> 2



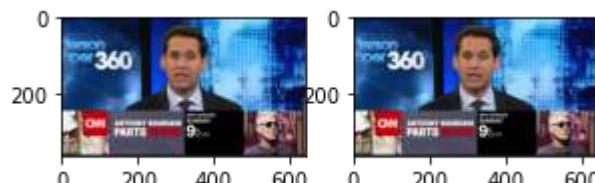
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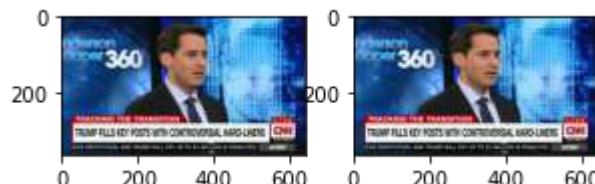
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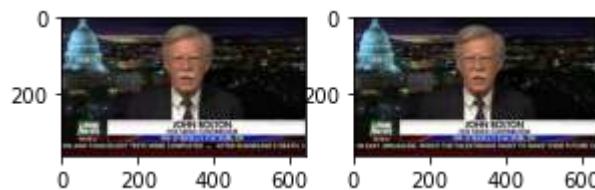
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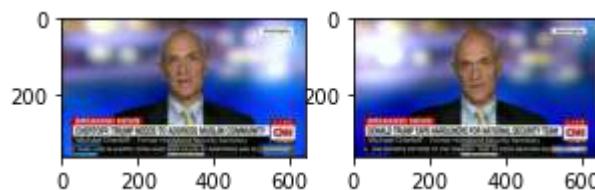
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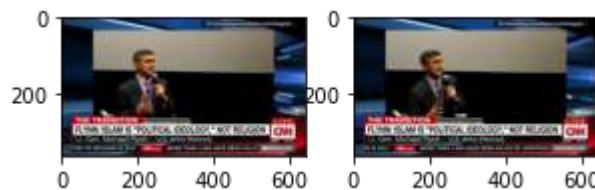
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CLUSTER--> 554 TOTAL IMAGES--> 2



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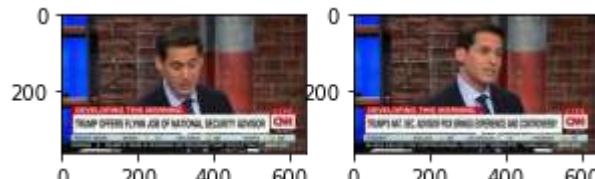
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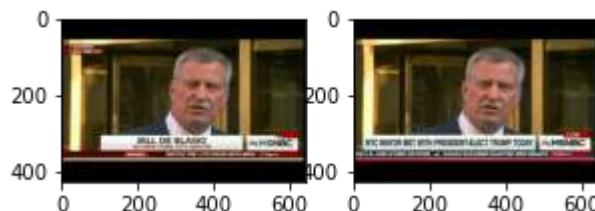
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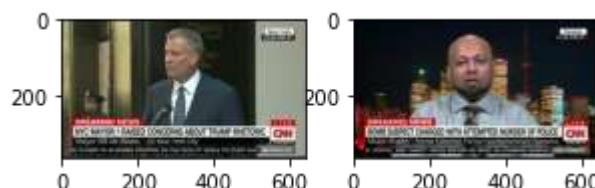
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CLUSTER--> 559 TOTAL IMAGES--> 2



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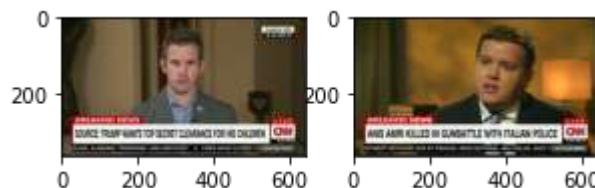
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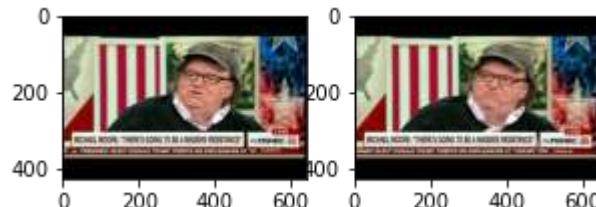
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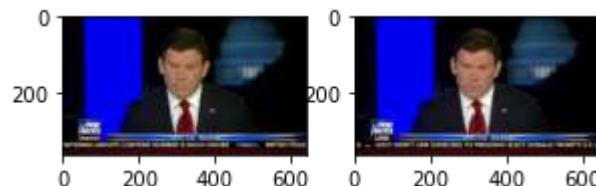
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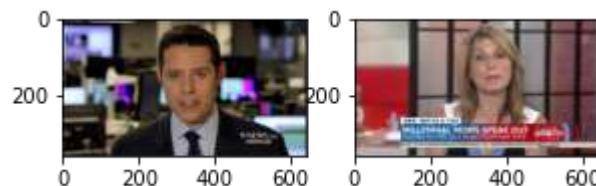
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CLUSTER--> 565 TOTAL IMAGES--> 2



CLUSTER--> 566 TOTAL IMAGES--> 2



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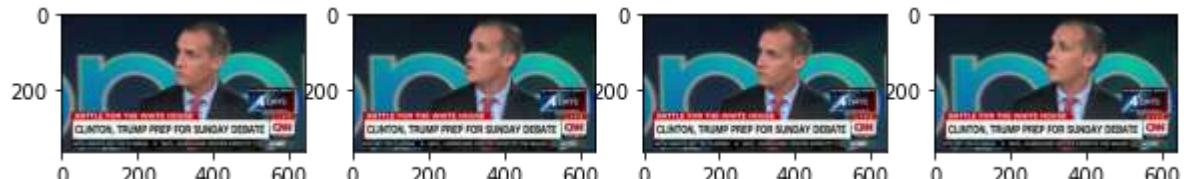
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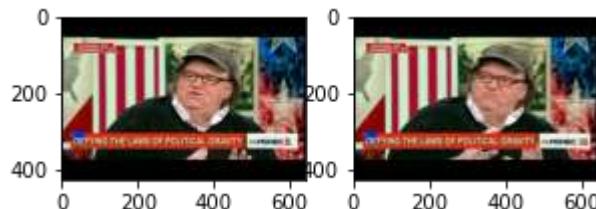
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CLUSTER--> 570 TOTAL IMAGES--> 4



CLUSTER--> 571 TOTAL IMAGES--> 2



CLUSTER--> 572 TOTAL IMAGES--> 2



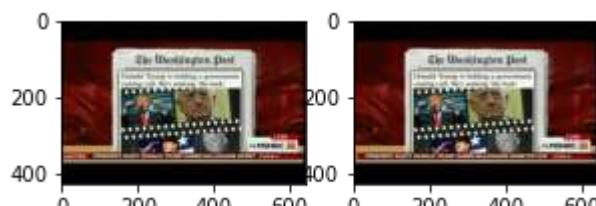
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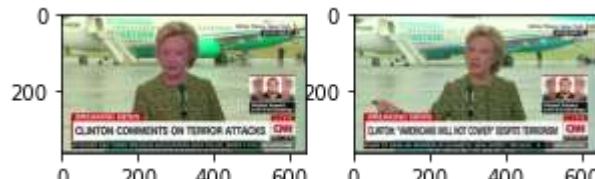
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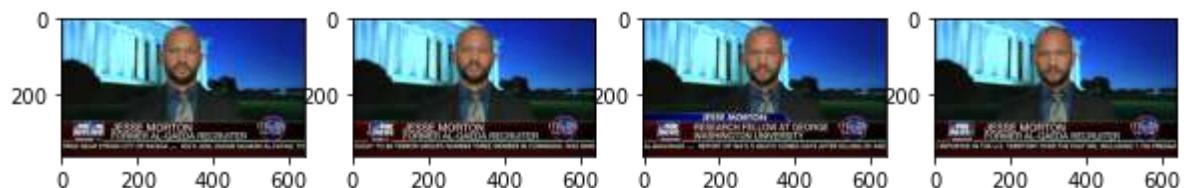
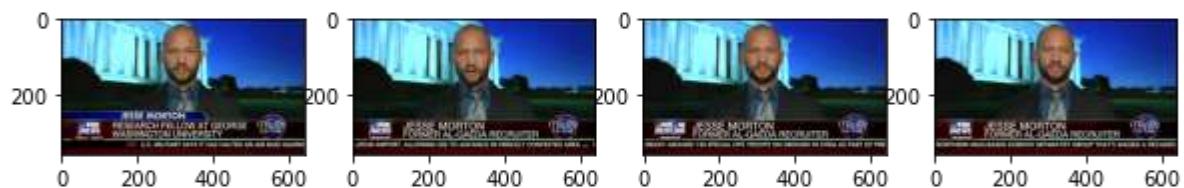
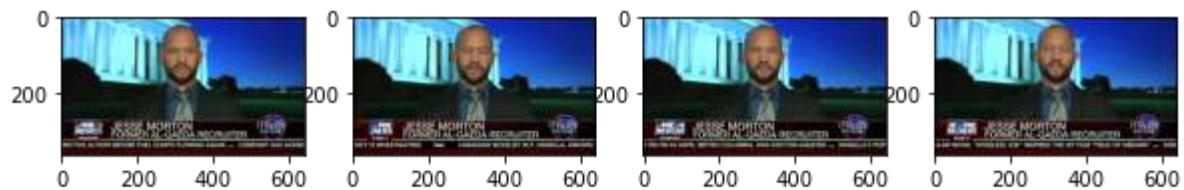
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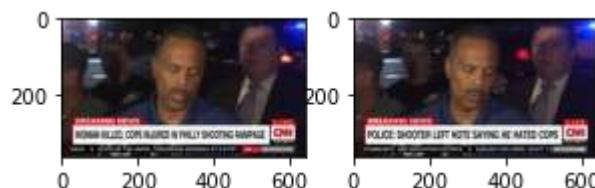
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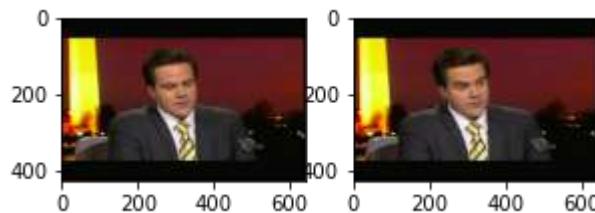
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CLUSTER--> 578 TOTAL IMAGES--> 2



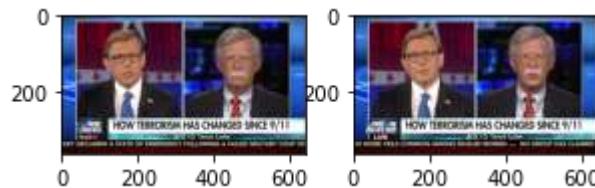
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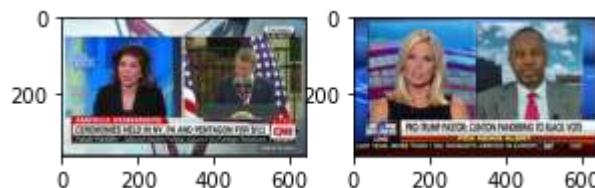
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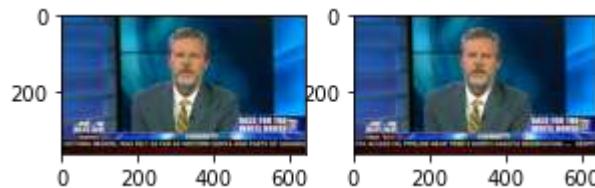
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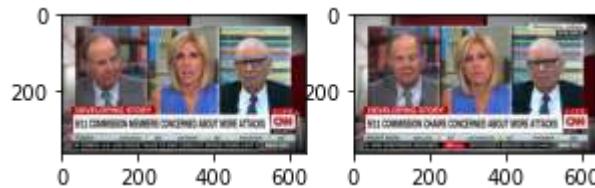
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CLUSTER--> 584 TOTAL IMAGES--> 2



CLUSTER--> 585 TOTAL IMAGES--> 2



CLUSTER--> 586 TOTAL IMAGES--> 3



CLUSTER--> 587 TOTAL IMAGES--> 3



CLUSTER--> 588 TOTAL IMAGES--> 2



CLUSTER--> 589 TOTAL IMAGES--> 2



CLUSTER--> 590 TOTAL IMAGES--> 2



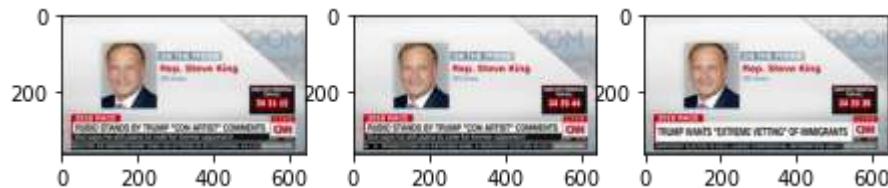
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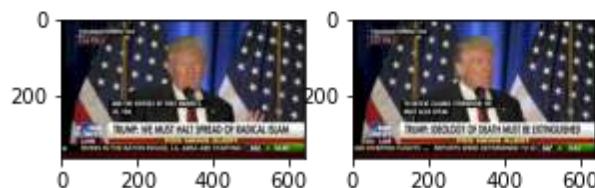
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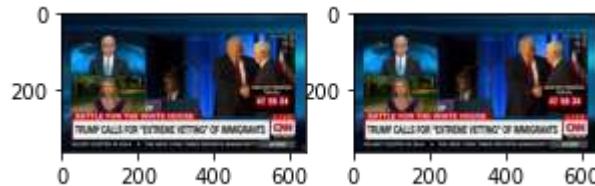
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CLUSTER--> 594 TOTAL IMAGES--> 6



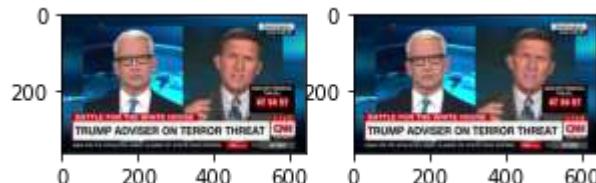
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CLUSTER--> 596 TOTAL IMAGES--> 2



CLUSTER--> 597 TOTAL IMAGES--> 2



CLUSTER--> 598 TOTAL IMAGES--> 4



CLUSTER--> 599 TOTAL IMAGES--> 4



OPTICS

```
In [7]: predicted_Labels=np.load('D://Himani-work/gsoc2020/code/image-results-updateGr  
id/ideology_model_densenet121.npy-pca-tsne_optics_labels.npy')  
unique_labels=set(predicted_Labels)  
for label in unique_labels:  
    if(label!=-1):  
        showClustering(predicted_Labels,label)
```

CLUSTER--> 0 TOTAL IMAGES--> 5



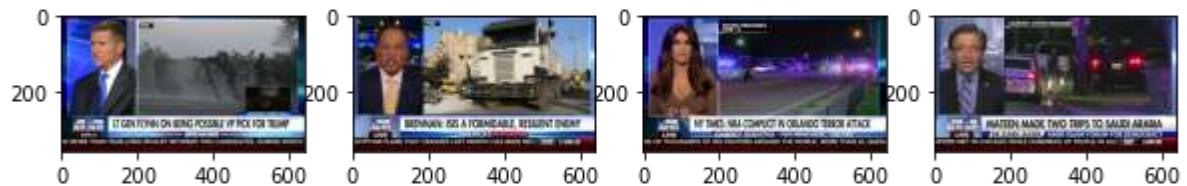
CLUSTER--> 1 TOTAL IMAGES--> 4



CLUSTER--> 2 TOTAL IMAGES--> 5



CLUSTER--> 3 TOTAL IMAGES--> 9



CLUSTER--> 4 TOTAL IMAGES--> 4



CLUSTER--> 5 TOTAL IMAGES--> 6



CLUSTER--> 6 TOTAL IMAGES--> 5



CLUSTER--> 7 TOTAL IMAGES--> 4



CLUSTER--> 8 TOTAL IMAGES--> 3



CLUSTER--> 9 TOTAL IMAGES--> 3



CLUSTER--> 10 TOTAL IMAGES--> 5



CLUSTER--> 11 TOTAL IMAGES--> 4



CLUSTER--> 12 TOTAL IMAGES--> 4



CLUSTER--> 13 TOTAL IMAGES--> 5



CLUSTER--> 14 TOTAL IMAGES--> 4



CLUSTER--> 15 TOTAL IMAGES--> 4



CLUSTER--> 16 TOTAL IMAGES--> 3



CLUSTER--> 17 TOTAL IMAGES--> 3



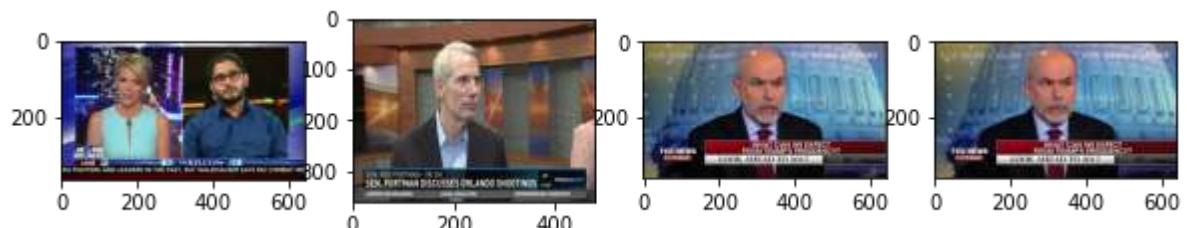
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CLUSTER--> 19 TOTAL IMAGES--> 5



CLUSTER--> 20 TOTAL IMAGES--> 4



CLUSTER--> 21 TOTAL IMAGES--> 5



CLUSTER--> 22 TOTAL IMAGES--> 7



CLUSTER--> 23 TOTAL IMAGES--> 4



CLUSTER--> 24 TOTAL IMAGES--> 3



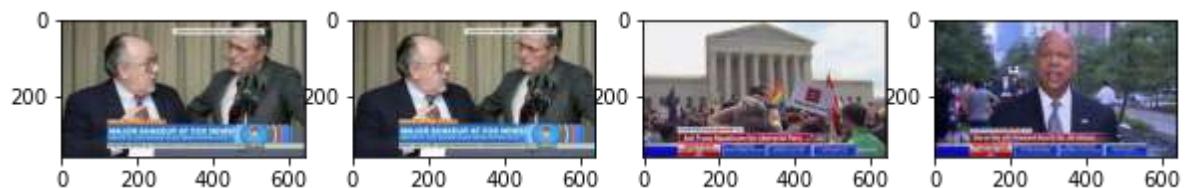
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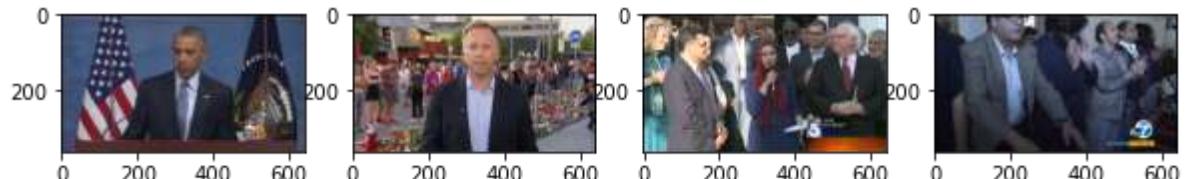
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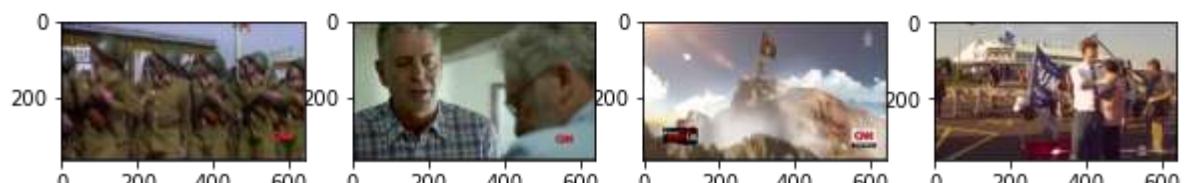
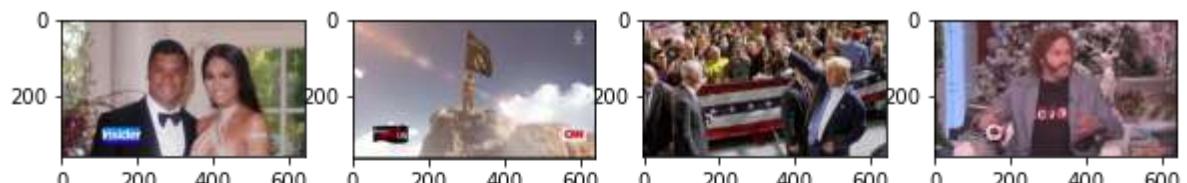
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CLUSTER--> 28 TOTAL IMAGES--> 5



CLUSTER--> 29 TOTAL IMAGES--> 8



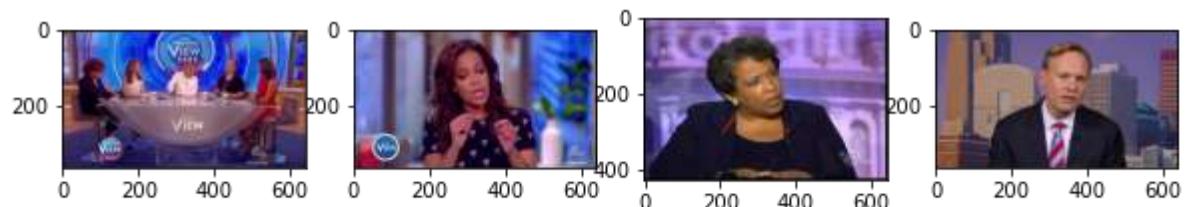
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CLUSTER--> 31 TOTAL IMAGES--> 3



CLUSTER--> 32 TOTAL IMAGES--> 5



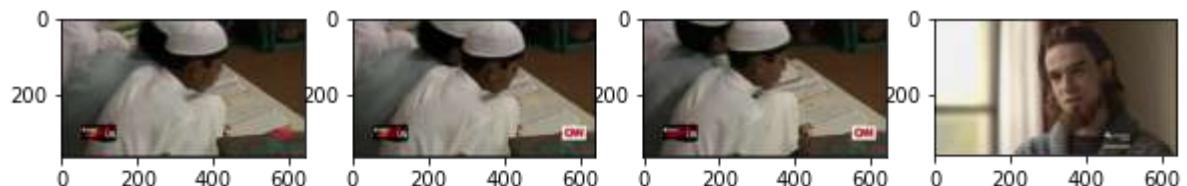
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CLUSTER--> 34 TOTAL IMAGES--> 3



CLUSTER--> 35 TOTAL IMAGES--> 5



CLUSTER--> 36 TOTAL IMAGES--> 3



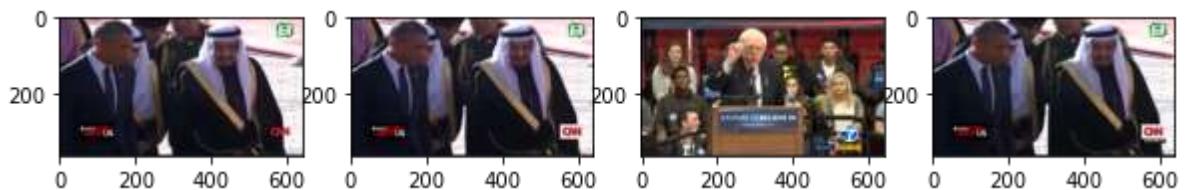
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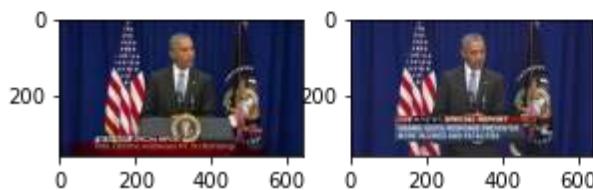
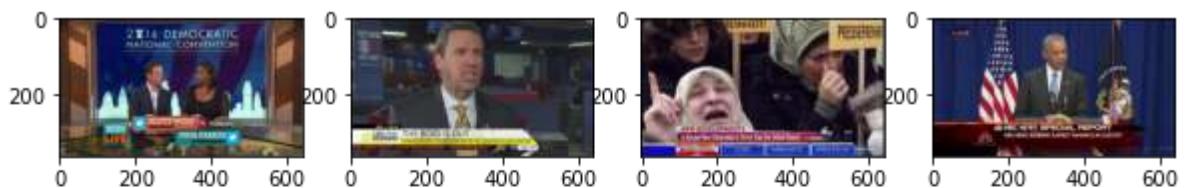
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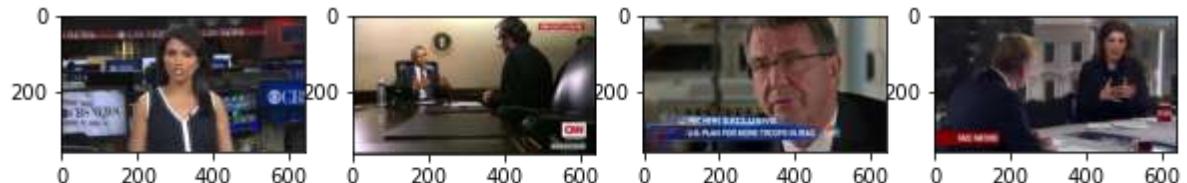
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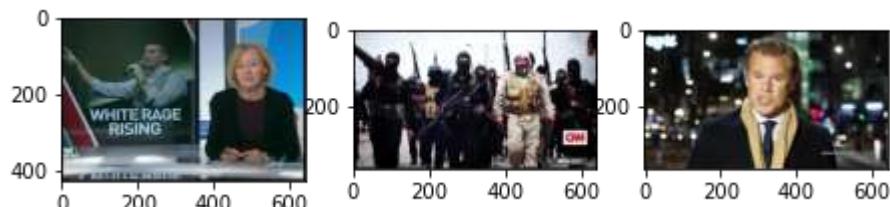
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CLUSTER--> 41 TOTAL IMAGES--> 5



CLUSTER--> 42 TOTAL IMAGES--> 3



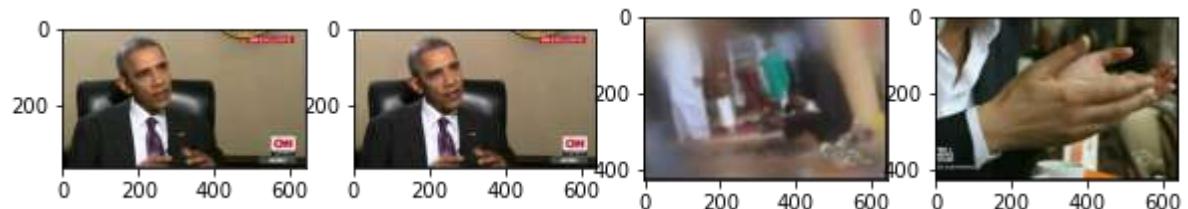
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CLUSTER--> 44 TOTAL IMAGES--> 8



CLUSTER--> 45 TOTAL IMAGES--> 4



CLUSTER--> 46 TOTAL IMAGES--> 3



CLUSTER--> 47 TOTAL IMAGES--> 6



CLUSTER--> 48 TOTAL IMAGES--> 5



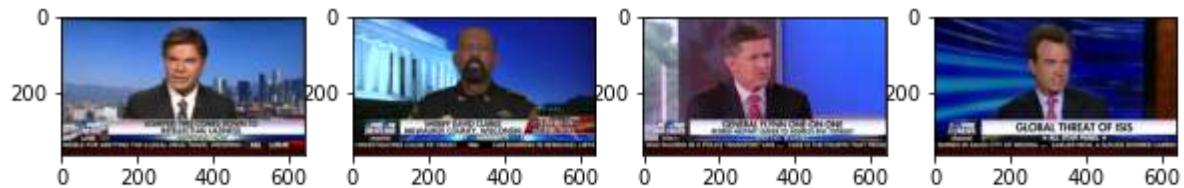
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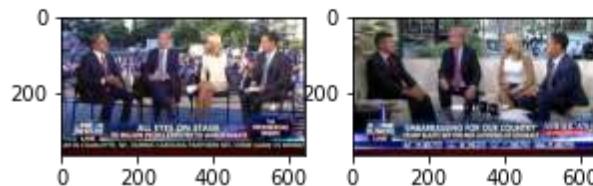
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CLUSTER--> 51 TOTAL IMAGES--> 8



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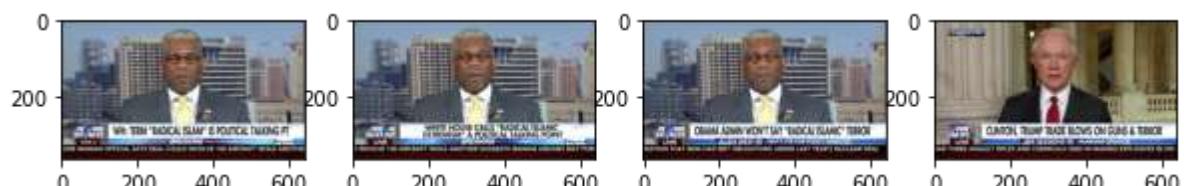
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CLUSTER--> 54 TOTAL IMAGES--> 3



CLUSTER--> 55 TOTAL IMAGES--> 4



CLUSTER--> 56 TOTAL IMAGES--> 3



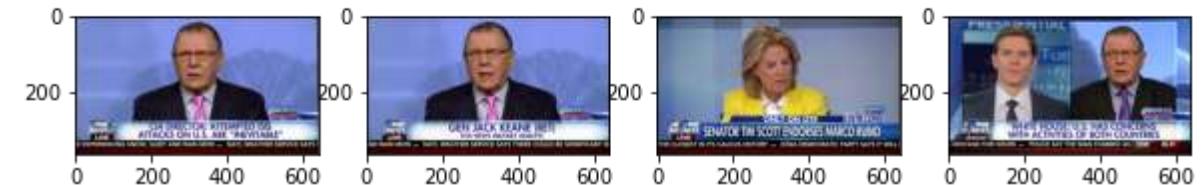
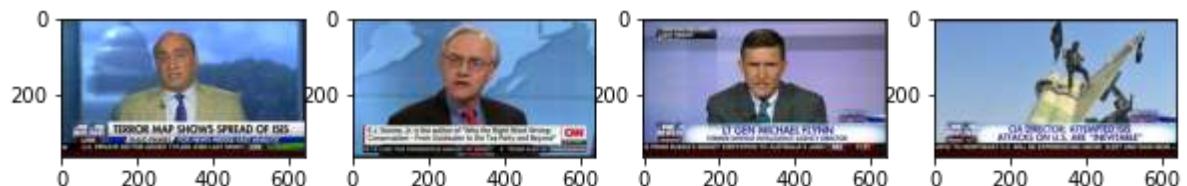
CLUSTER--> 57 TOTAL IMAGES--> 3



CLUSTER--> 58 TOTAL IMAGES--> 3



CLUSTER--> 59 TOTAL IMAGES--> 8



CLUSTER--> 60 TOTAL IMAGES--> 4



CLUSTER--> 61 TOTAL IMAGES--> 5



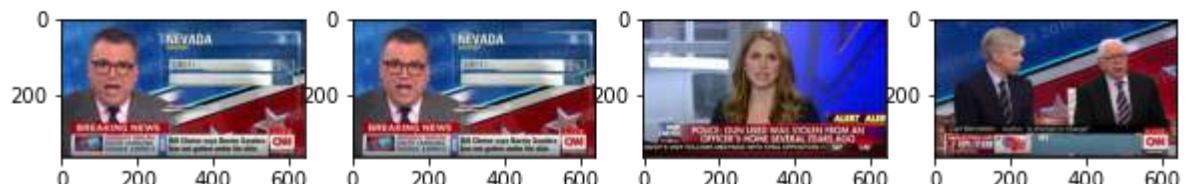
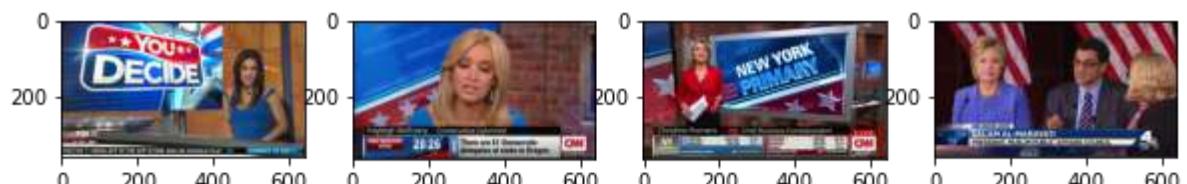
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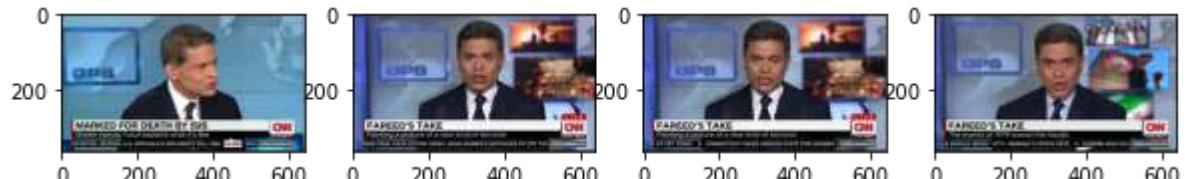
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CLUSTER--> 64 TOTAL IMAGES--> 8



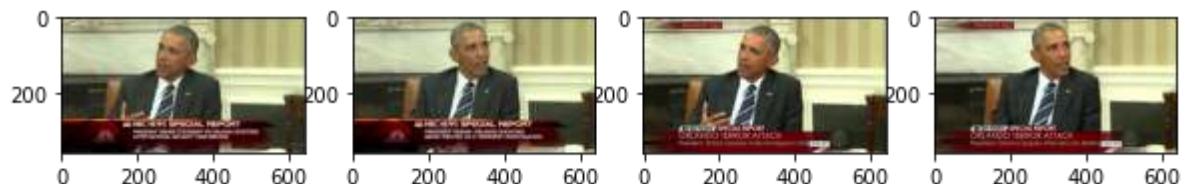
CLUSTER--> 65 TOTAL IMAGES--> 4



CLUSTER--> 66 TOTAL IMAGES--> 5



CLUSTER--> 67 TOTAL IMAGES--> 7



CLUSTER--> 68 TOTAL IMAGES--> 5



CLUSTER--> 69 TOTAL IMAGES--> 4



CLUSTER--> 70 TOTAL IMAGES--> 6



CLUSTER--> 71 TOTAL IMAGES--> 3



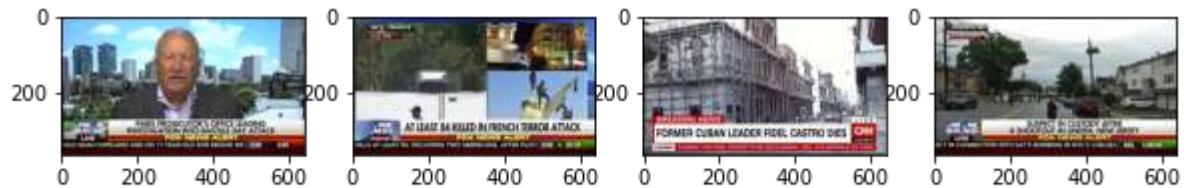
CLUSTER--> 72 TOTAL IMAGES--> 3



CLUSTER--> 73 TOTAL IMAGES--> 3



CLUSTER--> 74 TOTAL IMAGES--> 5



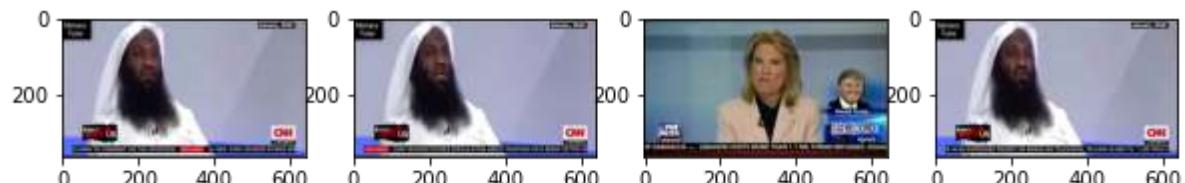
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CLUSTER--> 76 TOTAL IMAGES--> 3



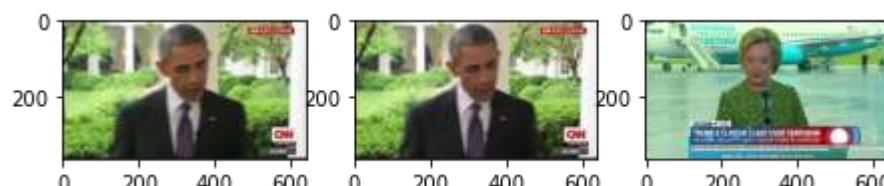
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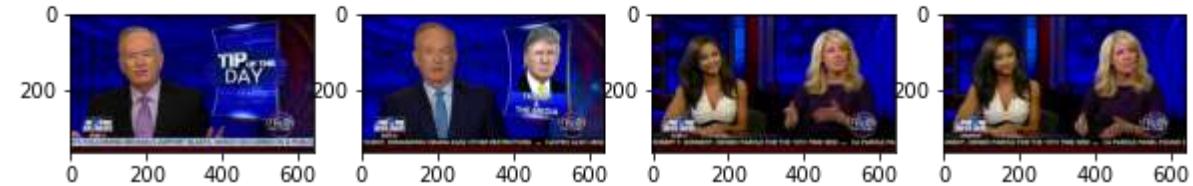
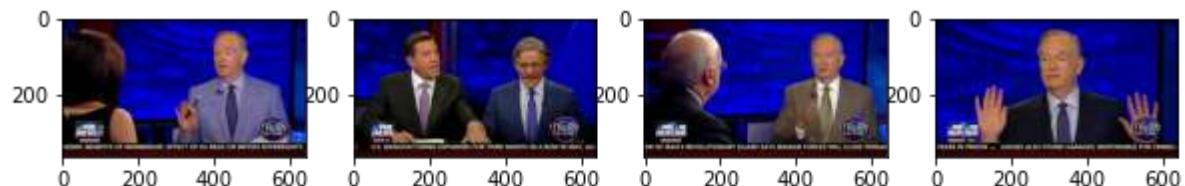
CLUSTER--> 78 TOTAL IMAGES--> 4



CLUSTER--> 79 TOTAL IMAGES--> 3



CLUSTER--> 80 TOTAL IMAGES--> 8



CLUSTER--> 81 TOTAL IMAGES--> 3



CLUSTER--> 82 TOTAL IMAGES--> 3



CLUSTER--> 83 TOTAL IMAGES--> 3



CLUSTER--> 84 TOTAL IMAGES--> 3



CLUSTER--> 85 TOTAL IMAGES--> 3



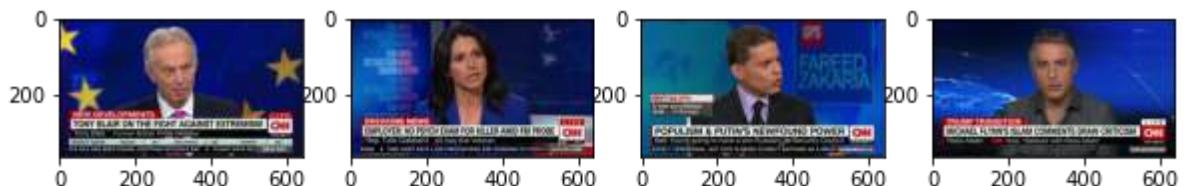
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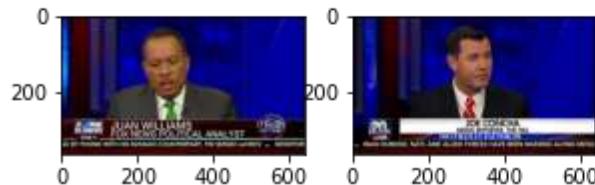
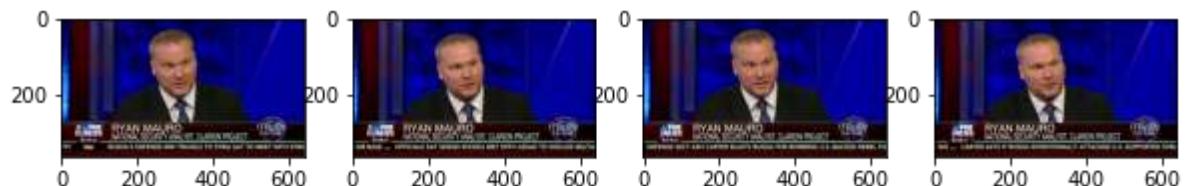
CLUSTER--> 87 TOTAL IMAGES--> 4



CLUSTER--> 88 TOTAL IMAGES--> 6



CLUSTER--> 89 TOTAL IMAGES--> 6



CLUSTER--> 90 TOTAL IMAGES--> 5



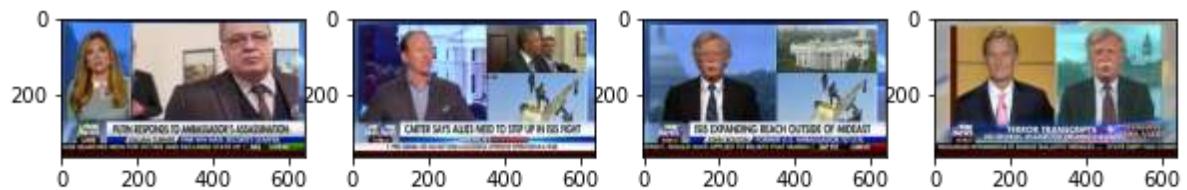
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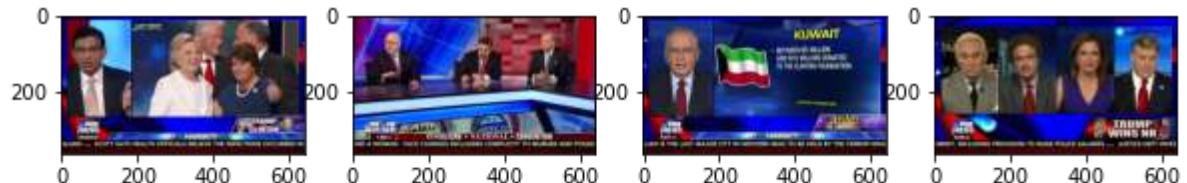
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CLUSTER--> 95 TOTAL IMAGES--> 3



CLUSTER--> 96 TOTAL IMAGES--> 7



CLUSTER--> 97 TOTAL IMAGES--> 4



CLUSTER--> 98 TOTAL IMAGES--> 4



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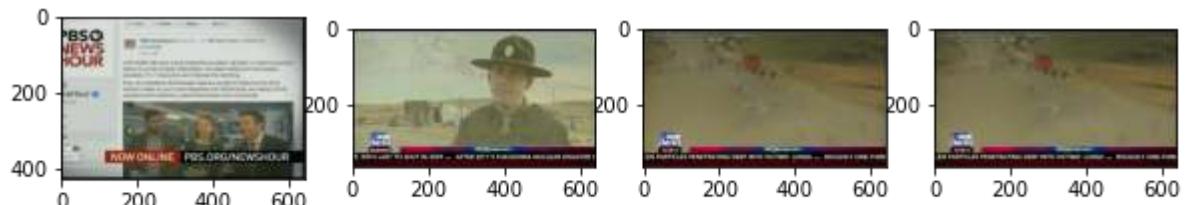
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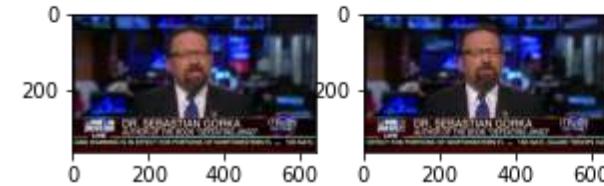
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CLUSTER--> 105 TOTAL IMAGES--> 3



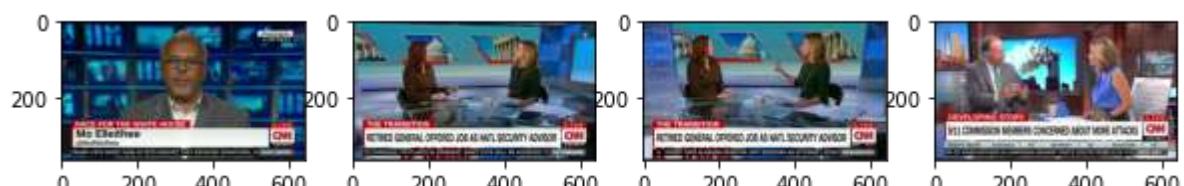
CLUSTER--> 106 TOTAL IMAGES--> 6



CLUSTER--> 107 TOTAL IMAGES--> 3



CLUSTER--> 108 TOTAL IMAGES--> 4



CLUSTER--> 109 TOTAL IMAGES--> 4



CLUSTER--> 110 TOTAL IMAGES--> 3



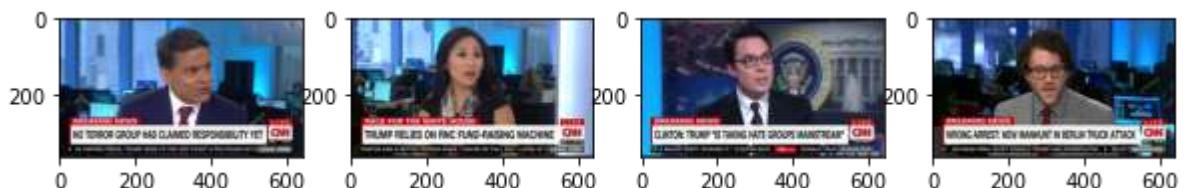
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CLUSTER--> 112 TOTAL IMAGES--> 4



CLUSTER--> 113 TOTAL IMAGES--> 4



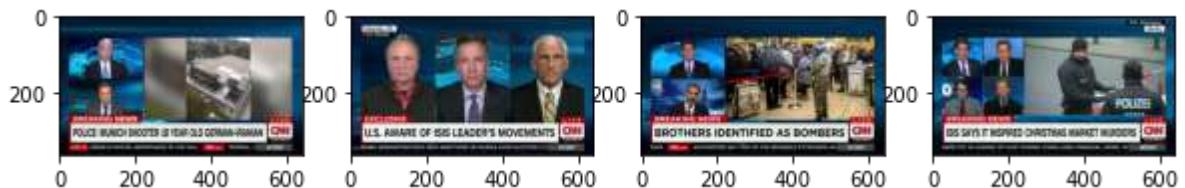
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CLUSTER--> 115 TOTAL IMAGES--> 3



CLUSTER--> 116 TOTAL IMAGES--> 4



CLUSTER--> 117 TOTAL IMAGES--> 5



CLUSTER--> 118 TOTAL IMAGES--> 5



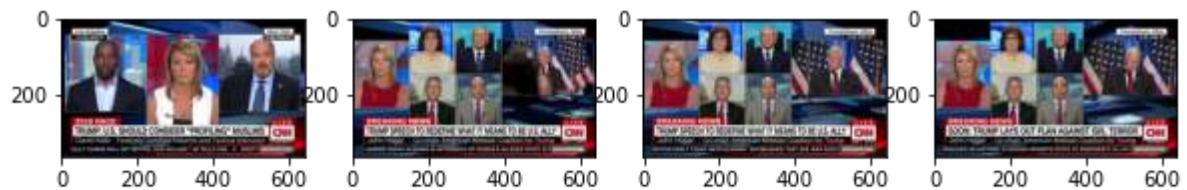
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CLUSTER--> 120 TOTAL IMAGES--> 3



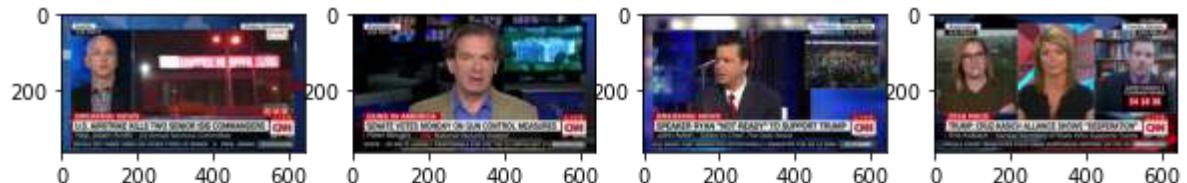
CLUSTER--> 121 TOTAL IMAGES--> 5



CLUSTER--> 122 TOTAL IMAGES--> 4



CLUSTER--> 123 TOTAL IMAGES--> 12



CLUSTER--> 124 TOTAL IMAGES--> 5



CLUSTER--> 125 TOTAL IMAGES--> 3



CLUSTER--> 126 TOTAL IMAGES--> 5



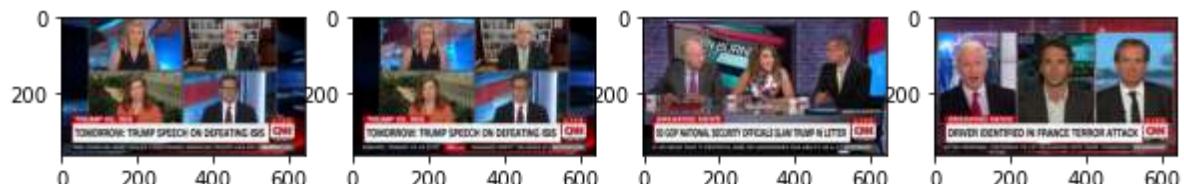
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CLUSTER--> 128 TOTAL IMAGES--> 3



CLUSTER--> 129 TOTAL IMAGES--> 11



CLUSTER--> 130 TOTAL IMAGES--> 6



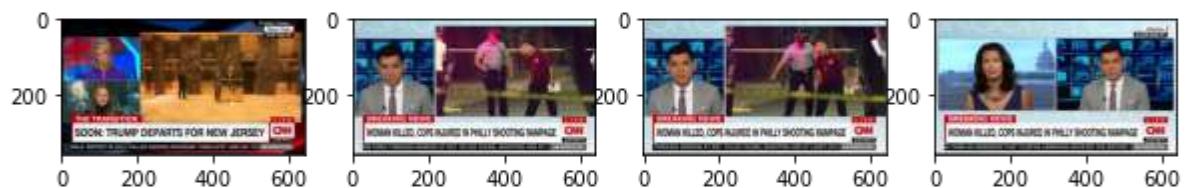
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CLUSTER--> 132 TOTAL IMAGES--> 4



CLUSTER--> 133 TOTAL IMAGES--> 9



CLUSTER--> 134 TOTAL IMAGES--> 9



CLUSTER--> 135 TOTAL IMAGES--> 4



CLUSTER--> 136 TOTAL IMAGES--> 3



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CLUSTER--> 138 TOTAL IMAGES--> 3



CLUSTER--> 139 TOTAL IMAGES--> 6



CLUSTER--> 140 TOTAL IMAGES--> 3



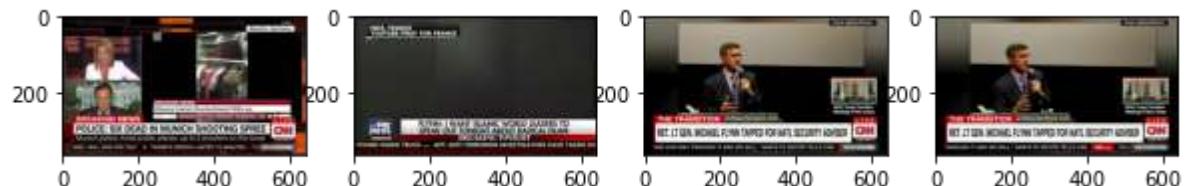
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CLUSTER--> 142 TOTAL IMAGES--> 7



CLUSTER--> 143 TOTAL IMAGES--> 4



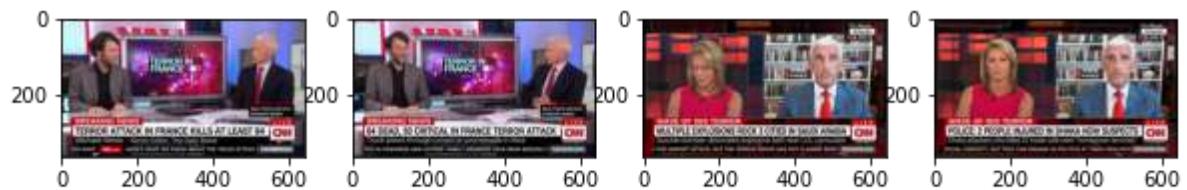
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CLUSTER--> 145 TOTAL IMAGES--> 3



CLUSTER--> 146 TOTAL IMAGES--> 5



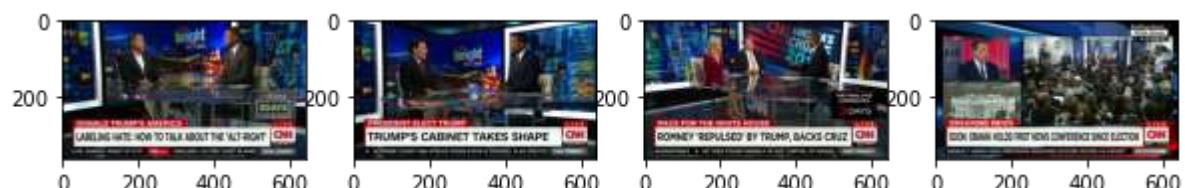
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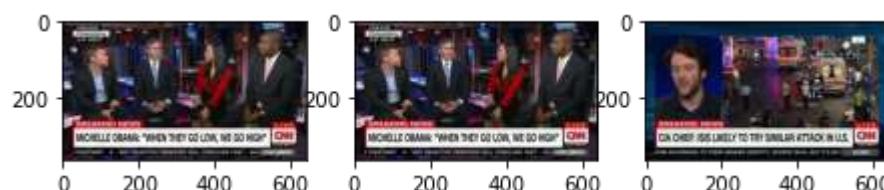
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CLUSTER--> 149 TOTAL IMAGES--> 4



CLUSTER--> 150 TOTAL IMAGES--> 3



CLUSTER--> 151 TOTAL IMAGES--> 3



CLUSTER--> 152 TOTAL IMAGES--> 3



CLUSTER--> 153 TOTAL IMAGES--> 8



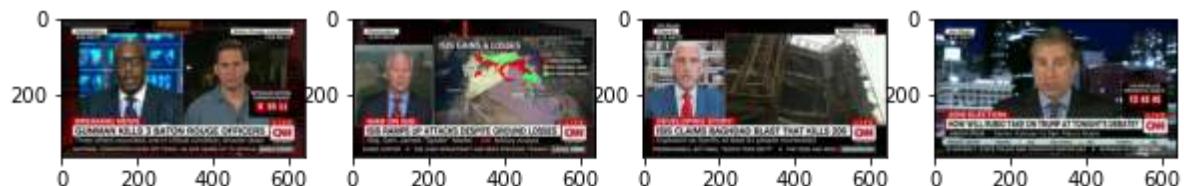
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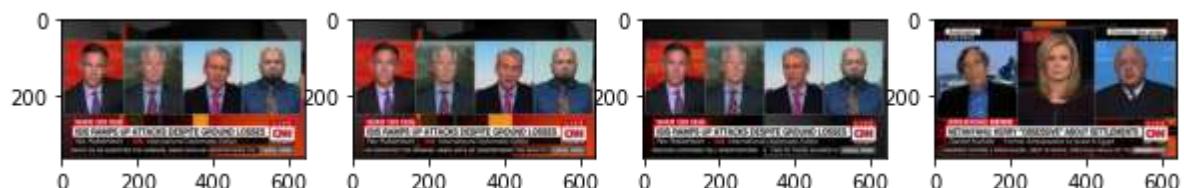
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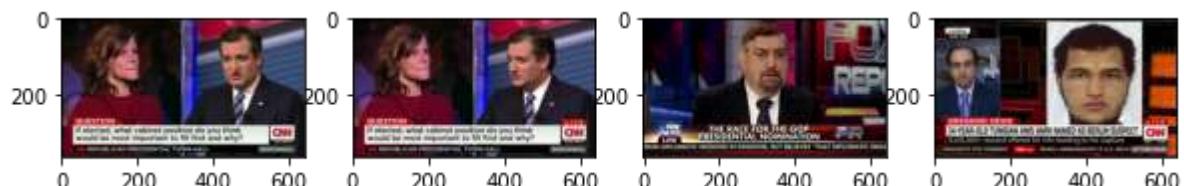
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CLUSTER--> 158 TOTAL IMAGES--> 4



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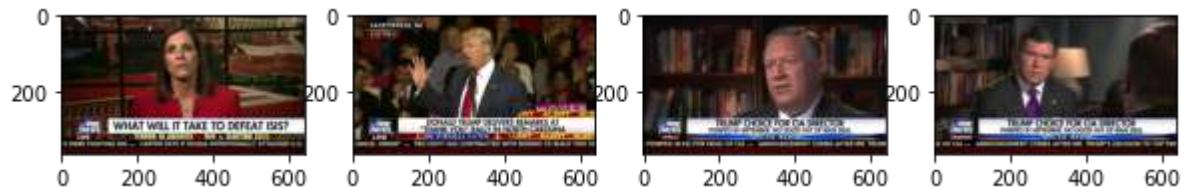
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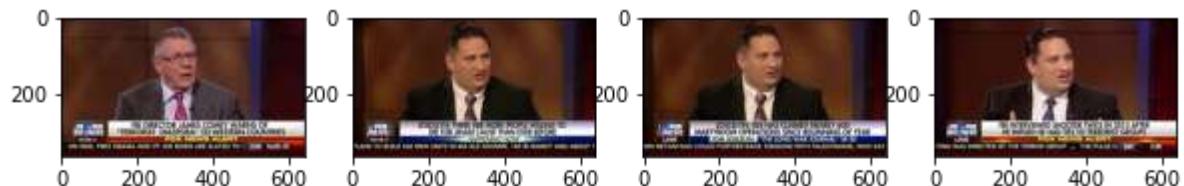
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CLUSTER--> 162 TOTAL IMAGES--> 4



CLUSTER--> 163 TOTAL IMAGES--> 6



CLUSTER--> 164 TOTAL IMAGES--> 3



CLUSTER--> 165 TOTAL IMAGES--> 3



CLUSTER--> 166 TOTAL IMAGES--> 14



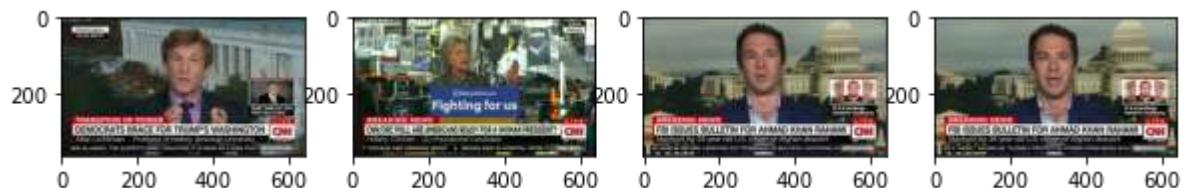
CLUSTER--> 167 TOTAL IMAGES--> 5



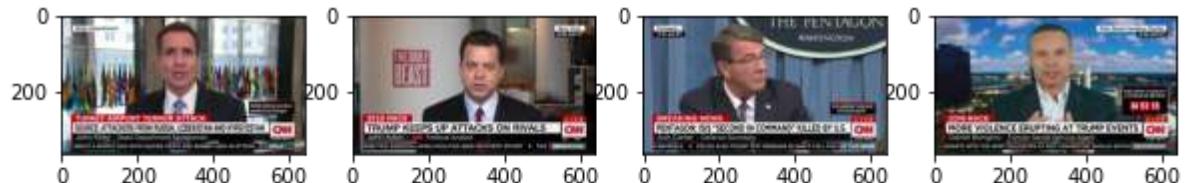
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CLUSTER--> 169 TOTAL IMAGES--> 4



CLUSTER--> 170 TOTAL IMAGES--> 5



CLUSTER--> 171 TOTAL IMAGES--> 3



CLUSTER--> 172 TOTAL IMAGES--> 5



CLUSTER--> 173 TOTAL IMAGES--> 5



CLUSTER--> 174 TOTAL IMAGES--> 13



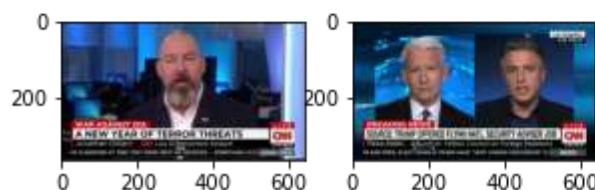
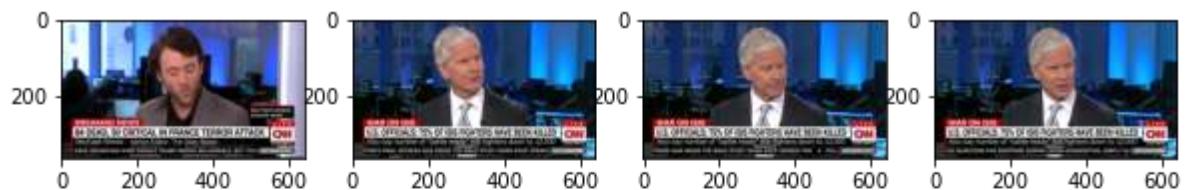
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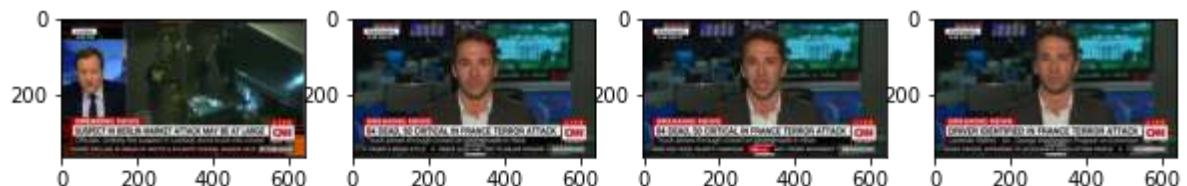
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CLUSTER--> 178 TOTAL IMAGES--> 8



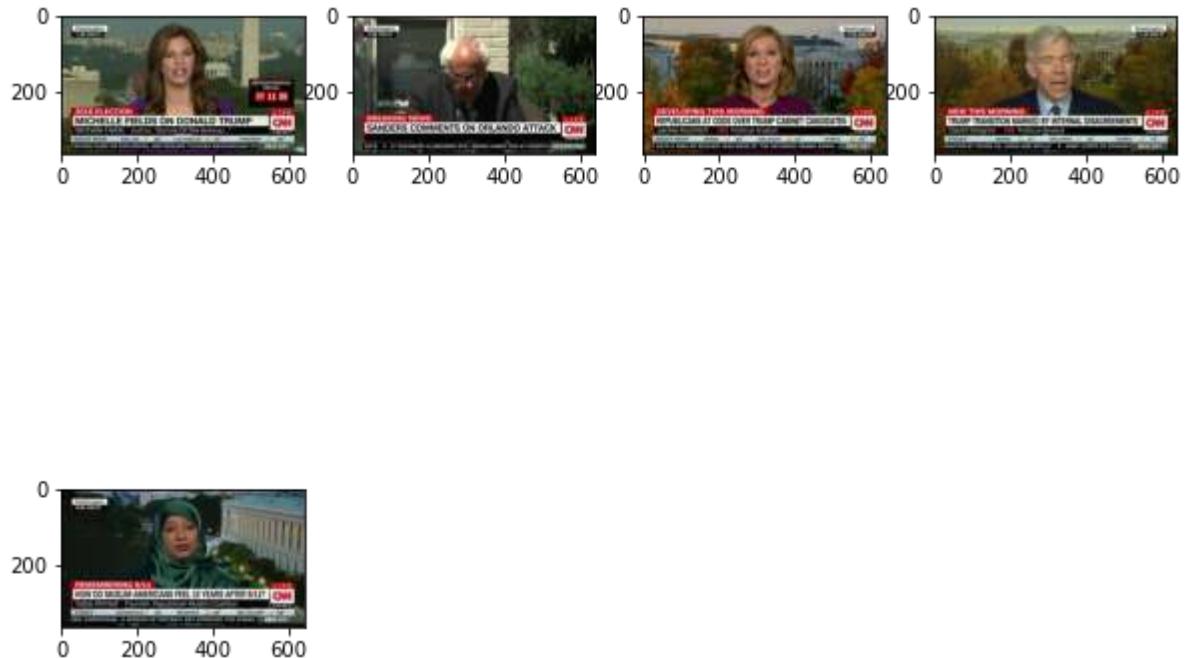
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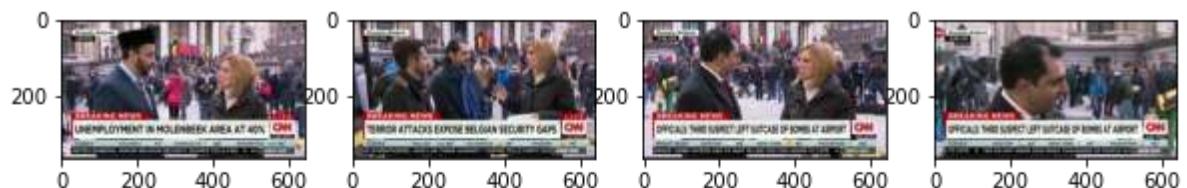
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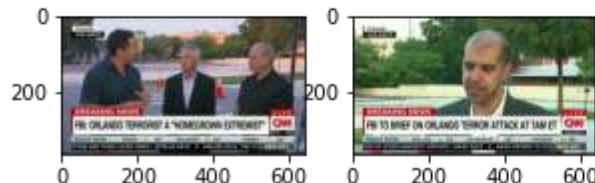
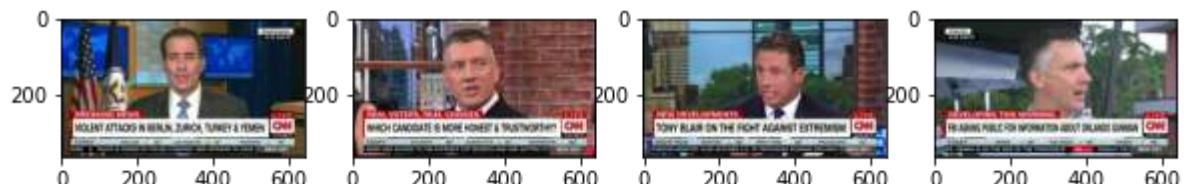


CLUSTER--> 182 TOTAL IMAGES--> 7



CLUSTER--> 183 TOTAL IMAGES--> 6





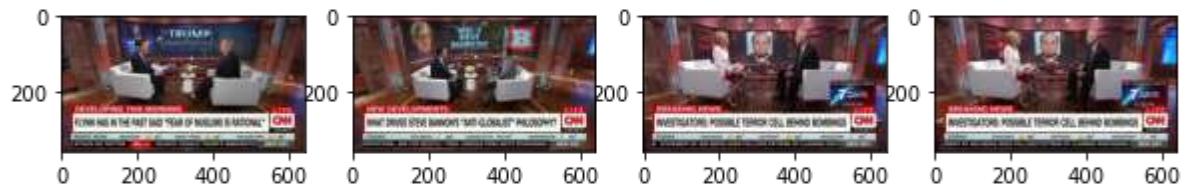
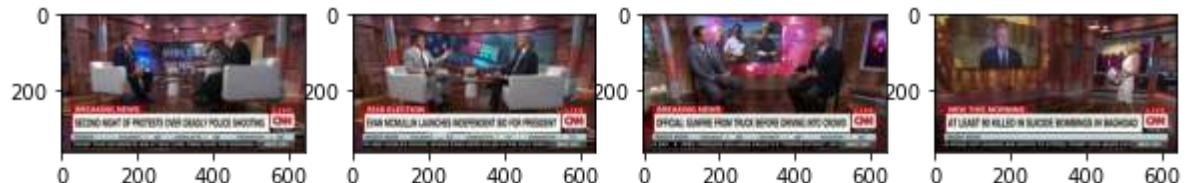
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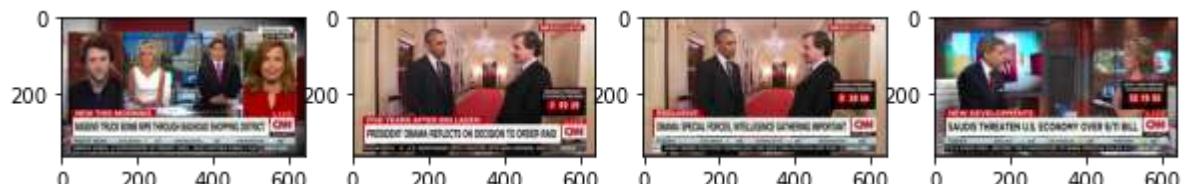
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CLUSTER--> 186 TOTAL IMAGES--> 11



CLUSTER--> 187 TOTAL IMAGES--> 4



CLUSTER--> 188 TOTAL IMAGES--> 4



CLUSTER--> 189 TOTAL IMAGES--> 5



CLUSTER--> 190 TOTAL IMAGES--> 10



CLUSTER--> 191 TOTAL IMAGES--> 5



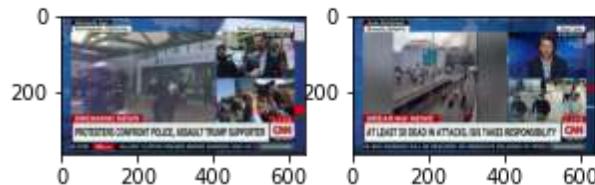
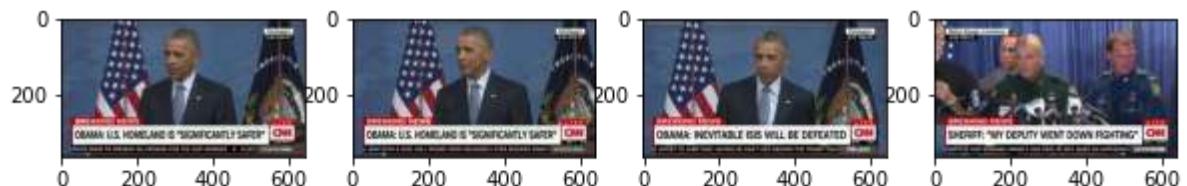
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CLUSTER--> 193 TOTAL IMAGES--> 4



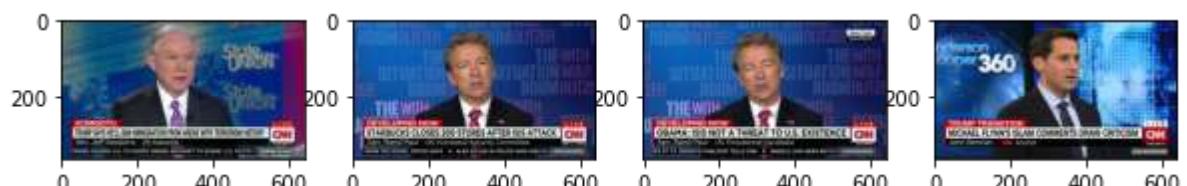
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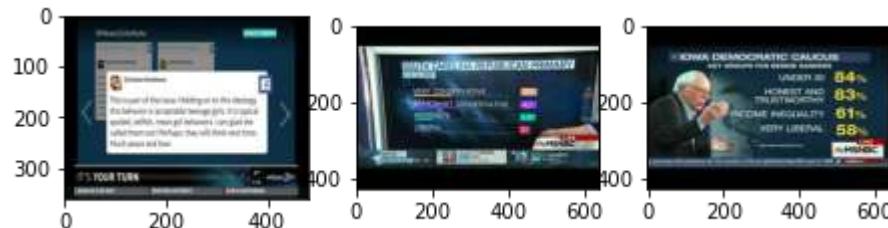
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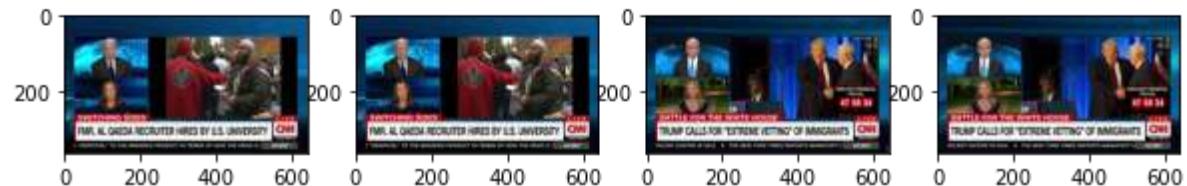
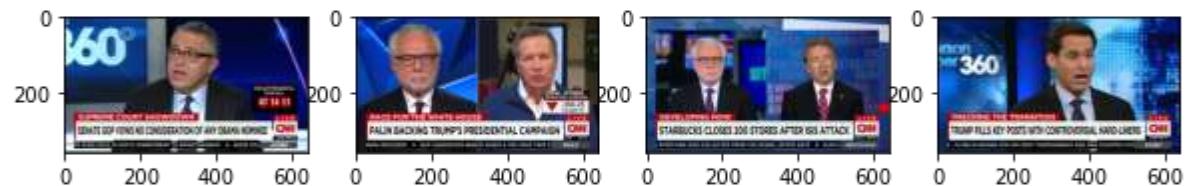
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CLUSTER--> 197 TOTAL IMAGES--> 3



CLUSTER--> 198 TOTAL IMAGES--> 12



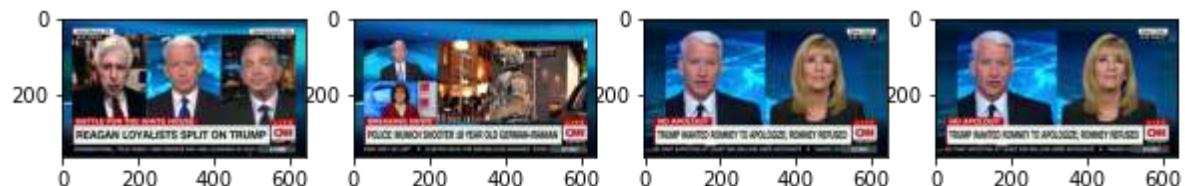
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CLUSTER--> 200 TOTAL IMAGES--> 3



CLUSTER--> 201 TOTAL IMAGES--> 8



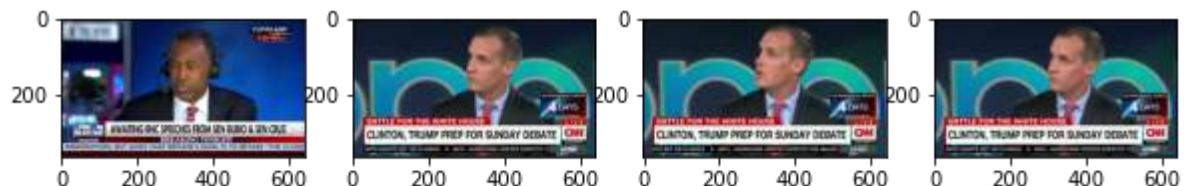
CLUSTER--> 202 TOTAL IMAGES--> 3



CLUSTER--> 203 TOTAL IMAGES--> 7



CLUSTER--> 204 TOTAL IMAGES--> 5



CLUSTER--> 205 TOTAL IMAGES--> 3



CLUSTER--> 206 TOTAL IMAGES--> 3



CLUSTER--> 207 TOTAL IMAGES--> 3



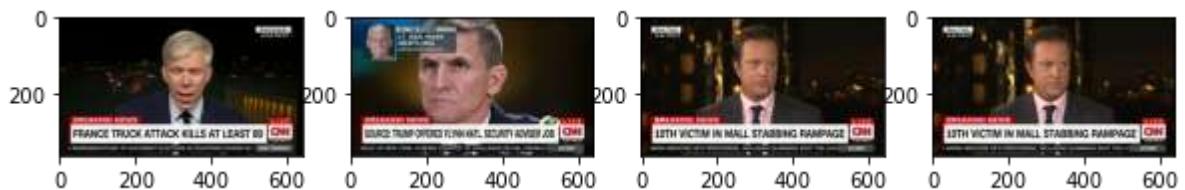
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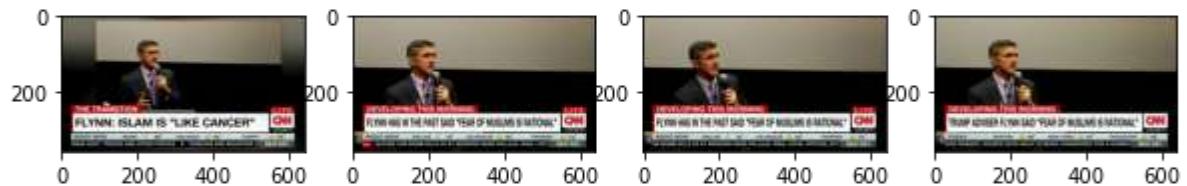
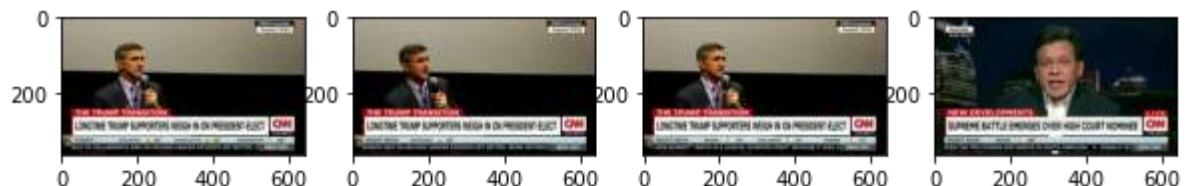
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CLUSTER--> 212 TOTAL IMAGES--> 9



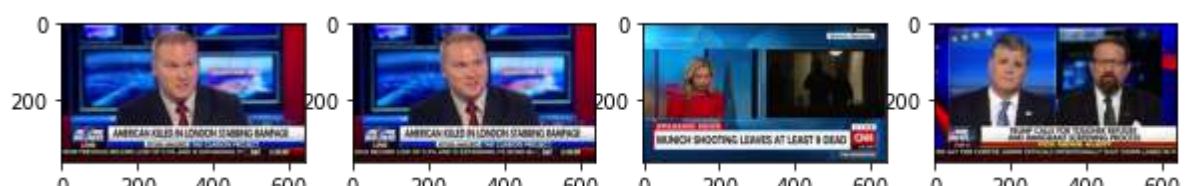
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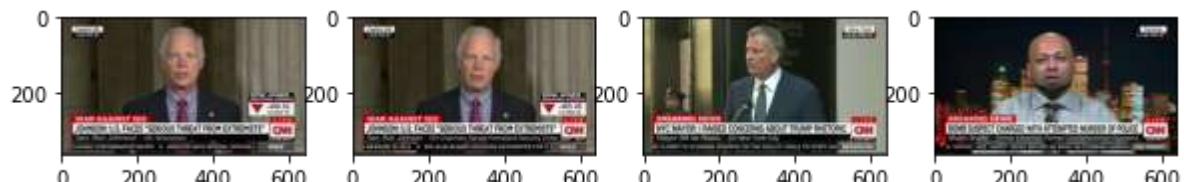
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CLUSTER--> 215 TOTAL IMAGES--> 4



CLUSTER--> 216 TOTAL IMAGES--> 4



CLUSTER--> 217 TOTAL IMAGES--> 3



CLUSTER--> 218 TOTAL IMAGES--> 3



CLUSTER--> 219 TOTAL IMAGES--> 3



CLUSTER--> 220 TOTAL IMAGES--> 7



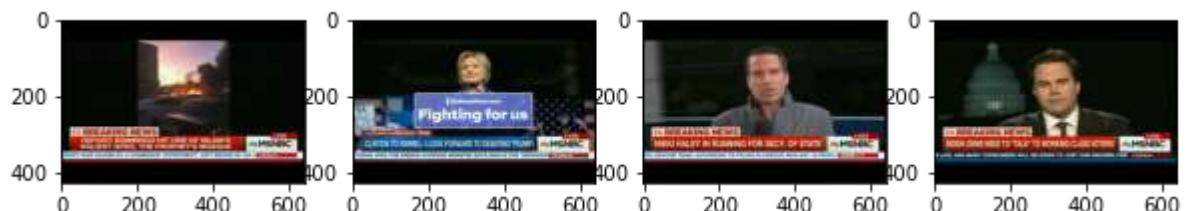
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CLUSTER--> 222 TOTAL IMAGES--> 3



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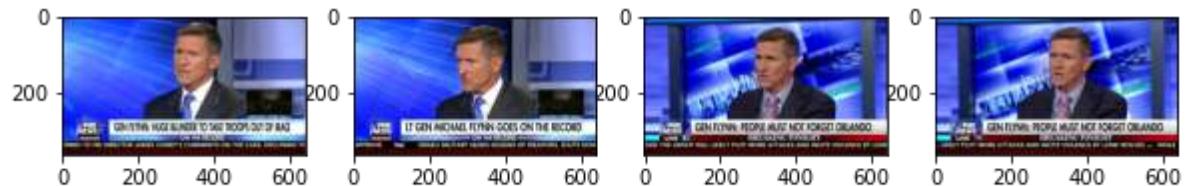
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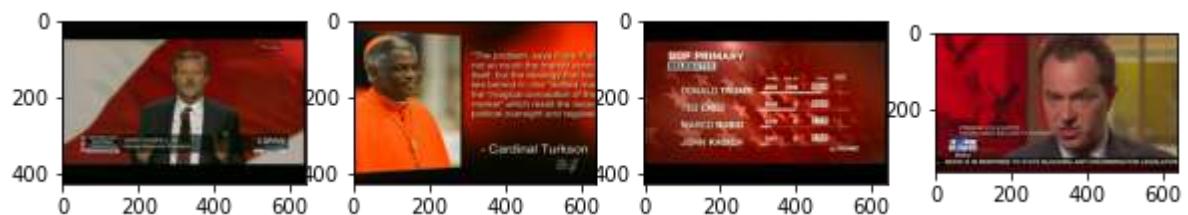
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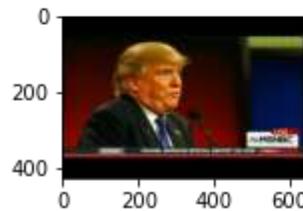
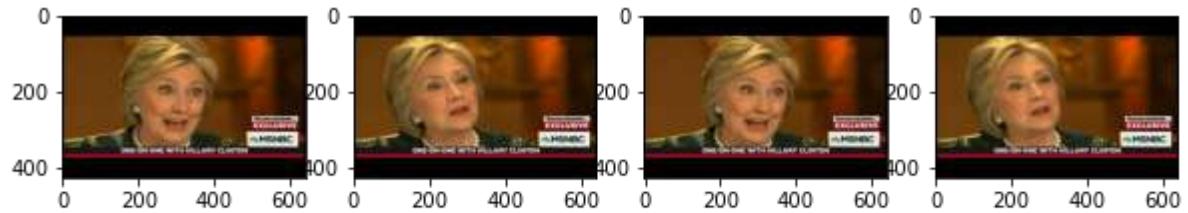
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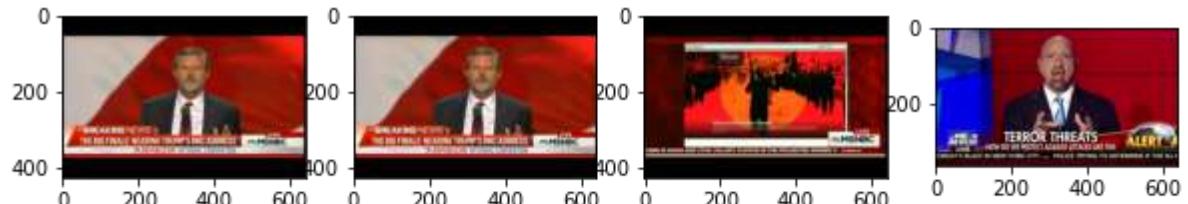
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CLUSTER--> 228 TOTAL IMAGES--> 5



CLUSTER--> 229 TOTAL IMAGES--> 5



CLUSTER--> 230 TOTAL IMAGES--> 3



CLUSTER--> 231 TOTAL IMAGES--> 6



CLUSTER--> 232 TOTAL IMAGES--> 3



CLUSTER--> 233 TOTAL IMAGES--> 7



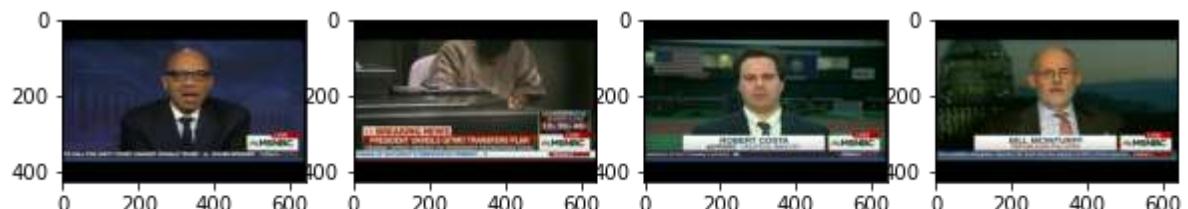
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CLUSTER--> 235 TOTAL IMAGES--> 3



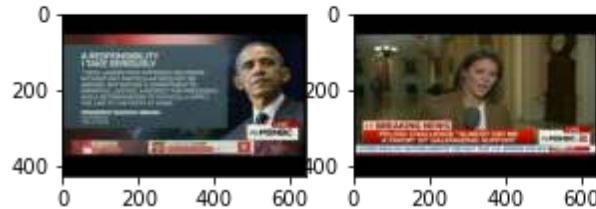
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CLUSTER--> 237 TOTAL IMAGES--> 5



CLUSTER--> 238 TOTAL IMAGES--> 6



CLUSTER--> 239 TOTAL IMAGES--> 4



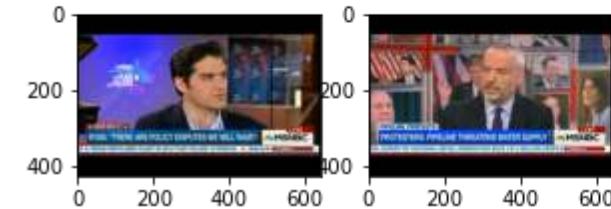
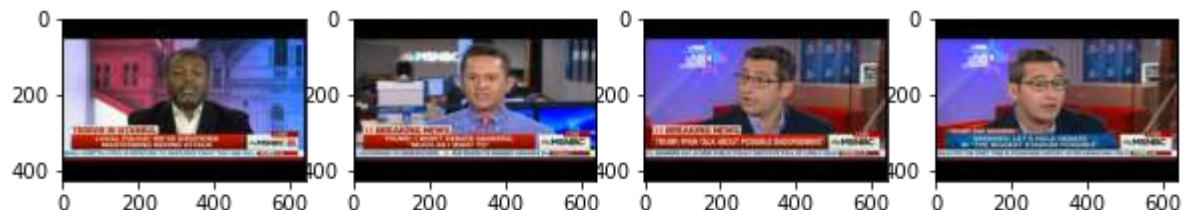
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CLUSTER--> 242 TOTAL IMAGES--> 6



CLUSTER--> 243 TOTAL IMAGES--> 3



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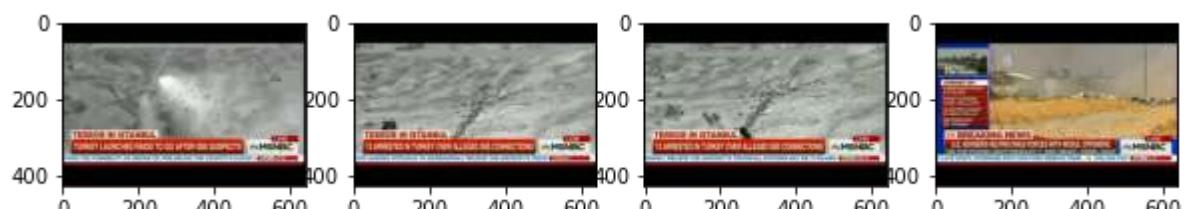
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CLUSTER--> 246 TOTAL IMAGES--> 6



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CLUSTER--> 248 TOTAL IMAGES--> 3



CLUSTER--> 249 TOTAL IMAGES--> 3



CLUSTER--> 250 TOTAL IMAGES--> 3



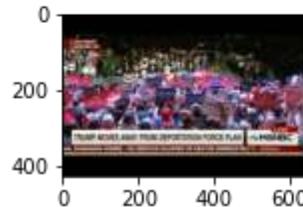
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CLUSTER--> 252 TOTAL IMAGES--> 5



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CLUSTER--> 254 TOTAL IMAGES--> 3



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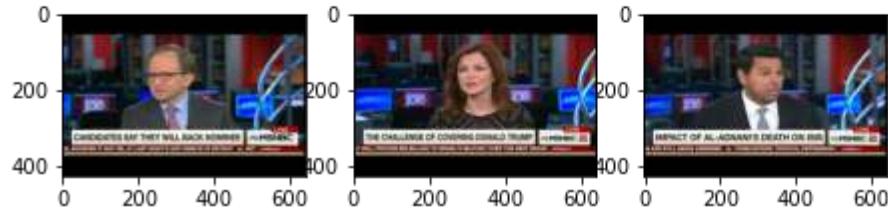
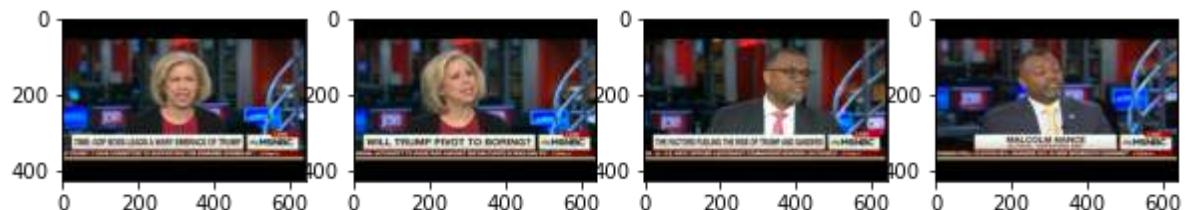
CLUSTER--> 259 TOTAL IMAGES--> 3



CLUSTER--> 260 TOTAL IMAGES--> 3



CLUSTER--> 261 TOTAL IMAGES--> 7



CLUSTER--> 262 TOTAL IMAGES--> 5



CLUSTER--> 263 TOTAL IMAGES--> 3



CLUSTER--> 264 TOTAL IMAGES--> 3



CLUSTER--> 265 TOTAL IMAGES--> 6



CLUSTER--> 266 TOTAL IMAGES--> 5



CLUSTER--> 267 TOTAL IMAGES--> 5



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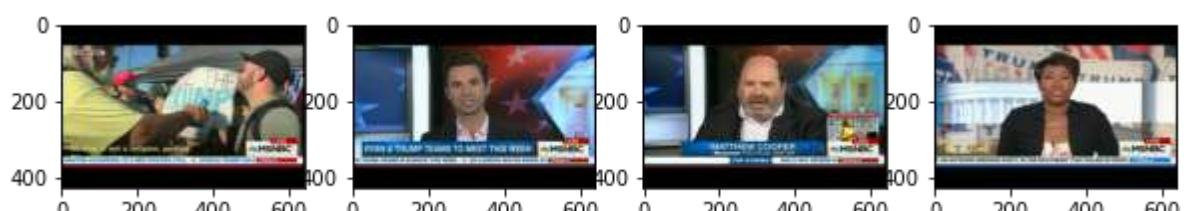
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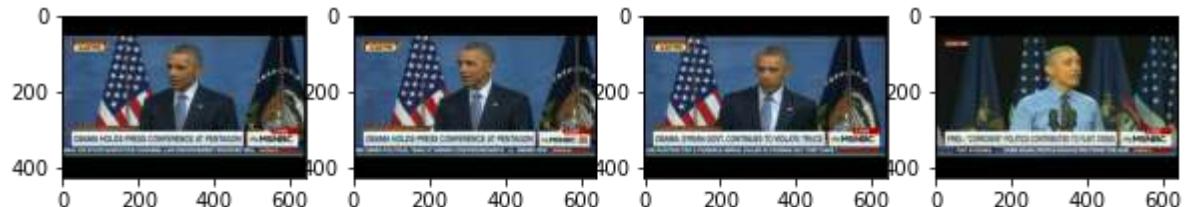
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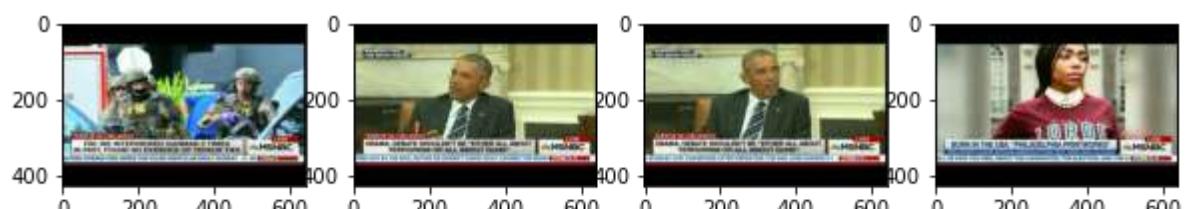
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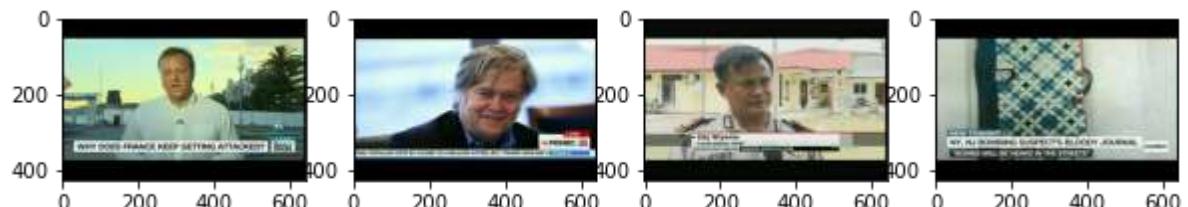
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CLUSTER--> 277 TOTAL IMAGES--> 5



CLUSTER--> 278 TOTAL IMAGES--> 4



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CLUSTER--> 280 TOTAL IMAGES--> 3



CLUSTER--> 281 TOTAL IMAGES--> 3



CLUSTER--> 282 TOTAL IMAGES--> 4



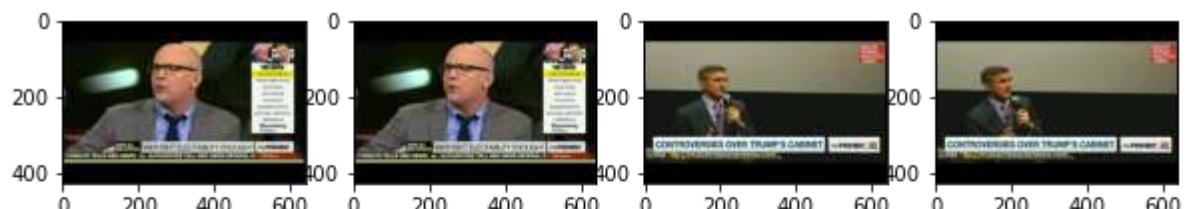
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CLUSTER--> 284 TOTAL IMAGES--> 6



CLUSTER--> 285 TOTAL IMAGES--> 5



CLUSTER--> 286 TOTAL IMAGES--> 4



CLUSTER--> 287 TOTAL IMAGES--> 3



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CLUSTER--> 290 TOTAL IMAGES--> 3



CLUSTER--> 291 TOTAL IMAGES--> 4



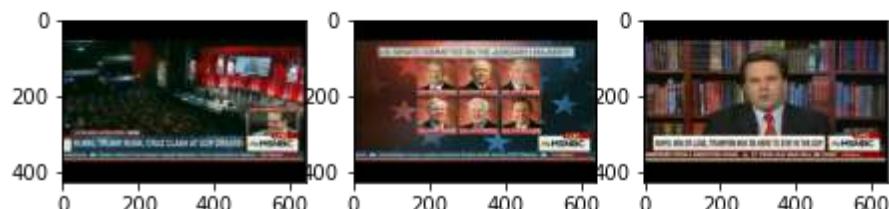
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CLUSTER--> 293 TOTAL IMAGES--> 3



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CLUSTER--> 295 TOTAL IMAGES--> 3



CLUSTER--> 296 TOTAL IMAGES--> 6



CLUSTER--> 297 TOTAL IMAGES--> 4



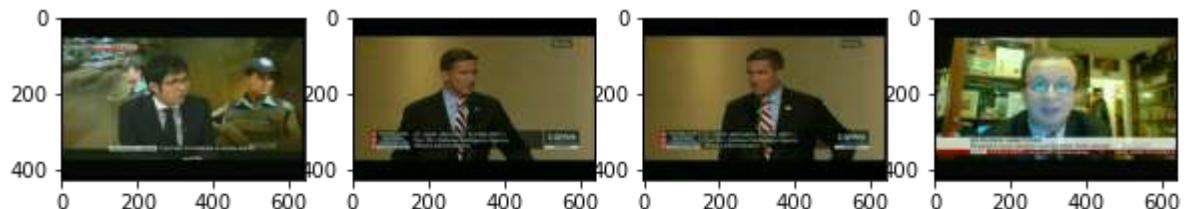
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CLUSTER--> 299 TOTAL IMAGES--> 3



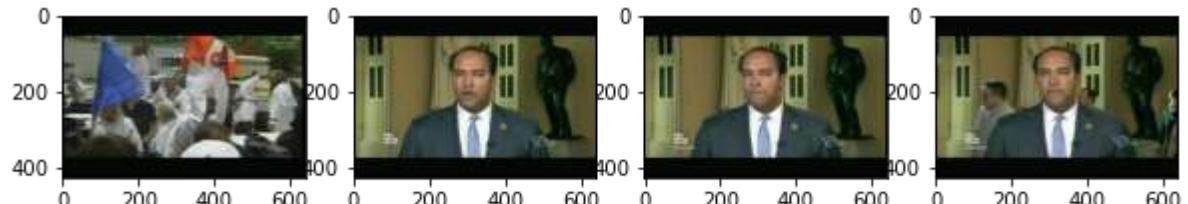
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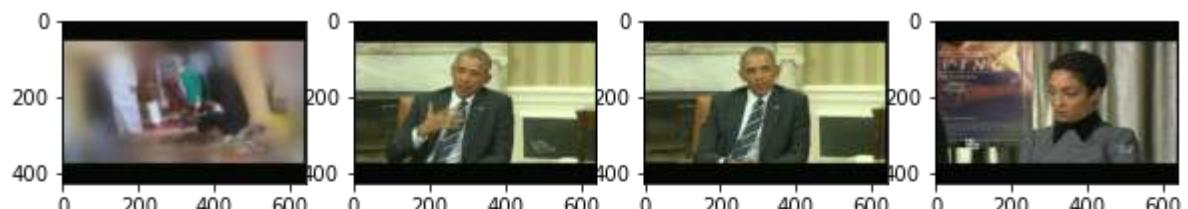
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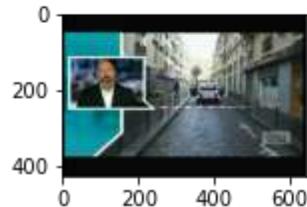
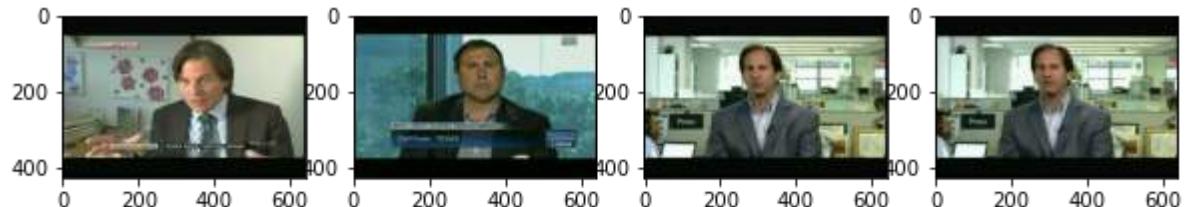
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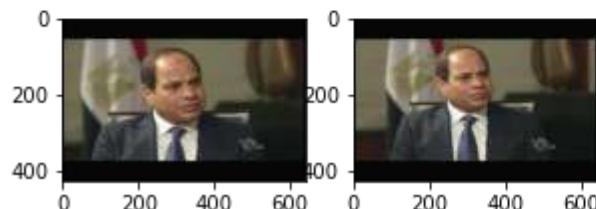
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CLUSTER--> 304 TOTAL IMAGES--> 5



CLUSTER--> 305 TOTAL IMAGES--> 6



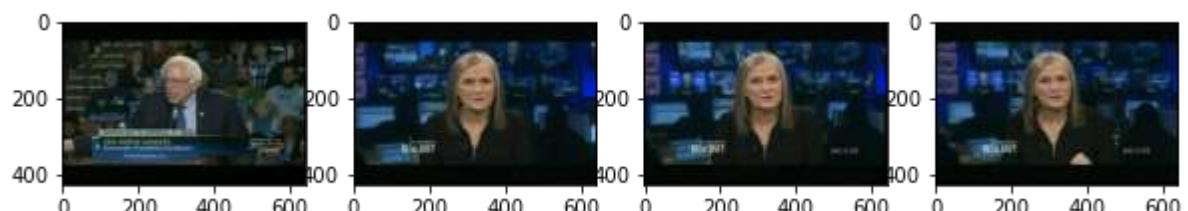
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CLUSTER--> 307 TOTAL IMAGES--> 3



CLUSTER--> 308 TOTAL IMAGES--> 4



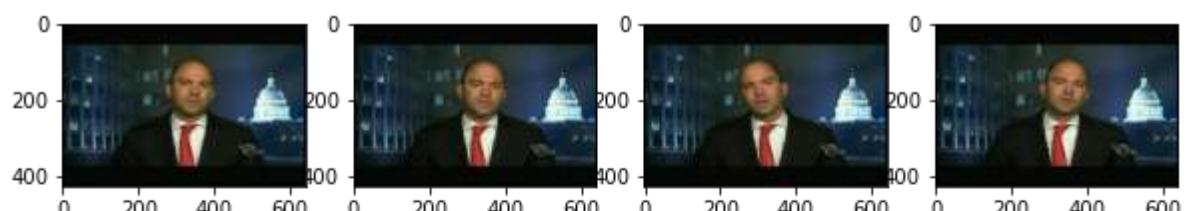
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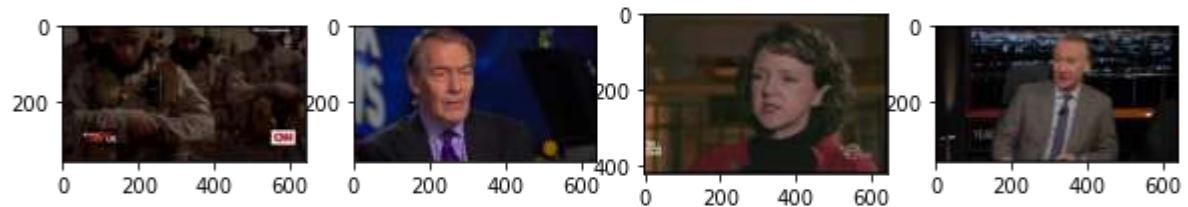
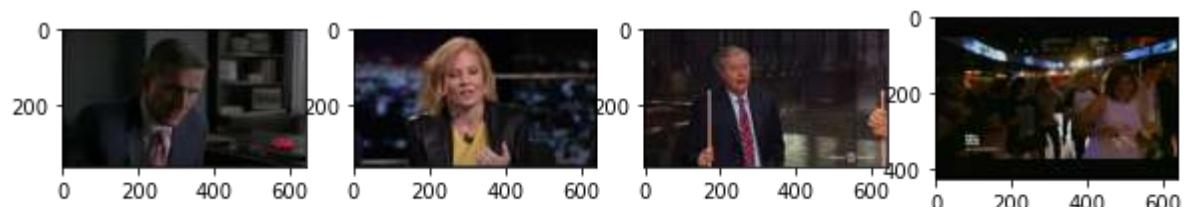
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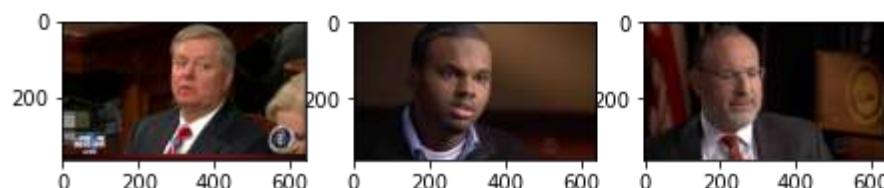
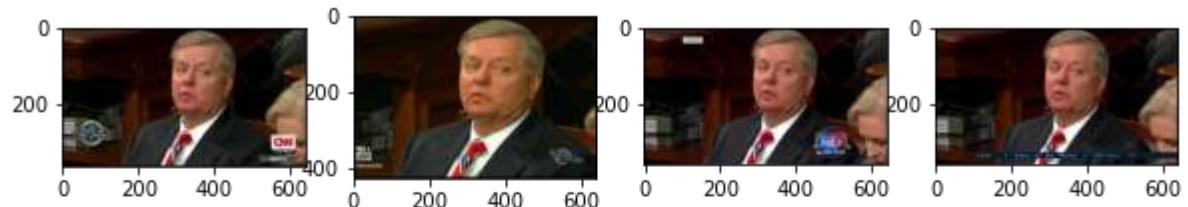
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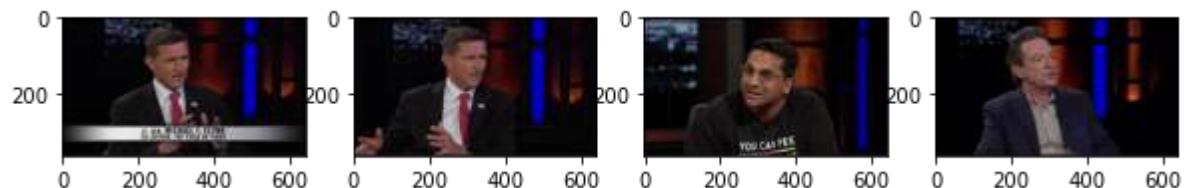
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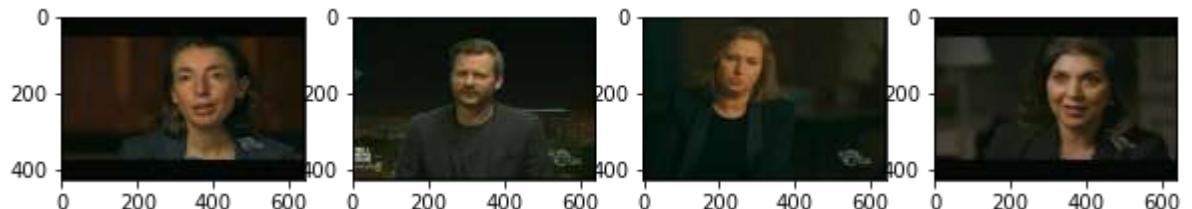
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CLUSTER--> 314 TOTAL IMAGES--> 4



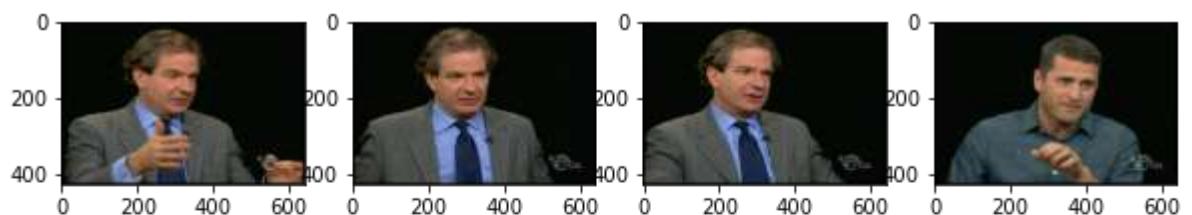
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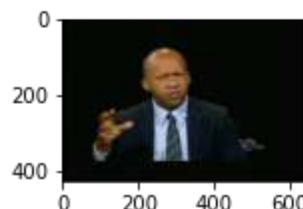
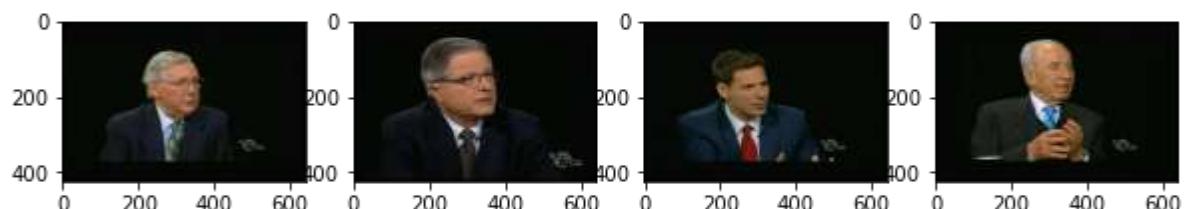
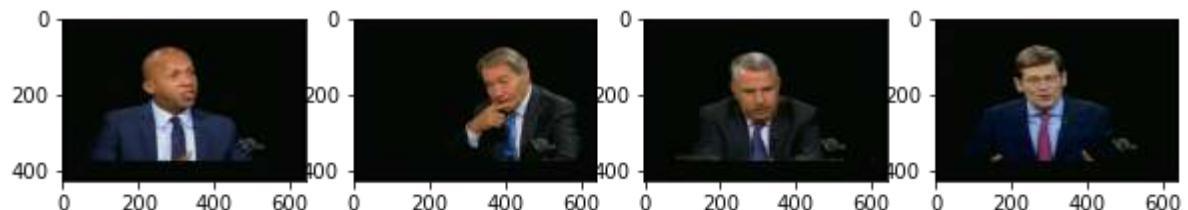
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CLUSTER--> 317 TOTAL IMAGES--> 5



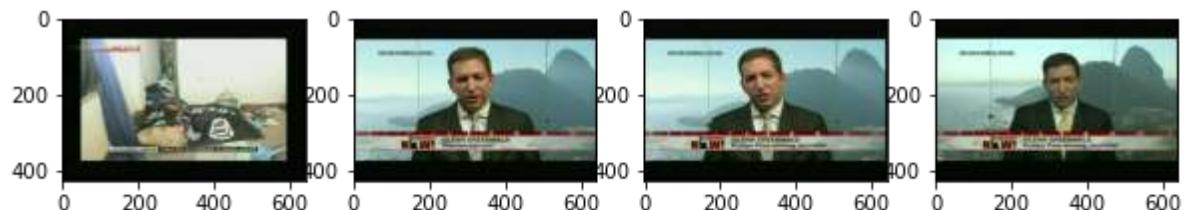
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CLUSTER--> 319 TOTAL IMAGES--> 3



CLUSTER--> 320 TOTAL IMAGES--> 5



CLUSTER--> 321 TOTAL IMAGES--> 3



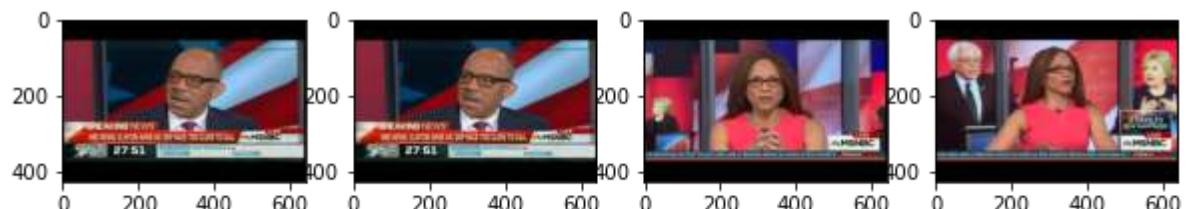
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CLUSTER--> 323 TOTAL IMAGES--> 4



CLUSTER--> 324 TOTAL IMAGES--> 8



CLUSTER--> 325 TOTAL IMAGES--> 3



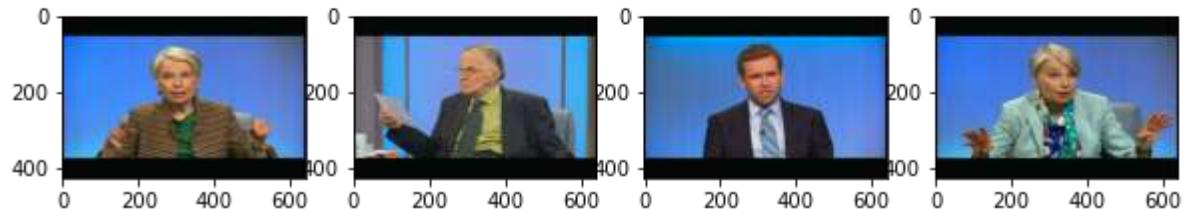
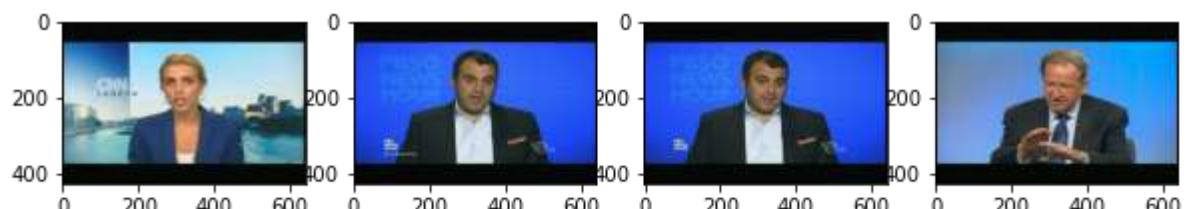
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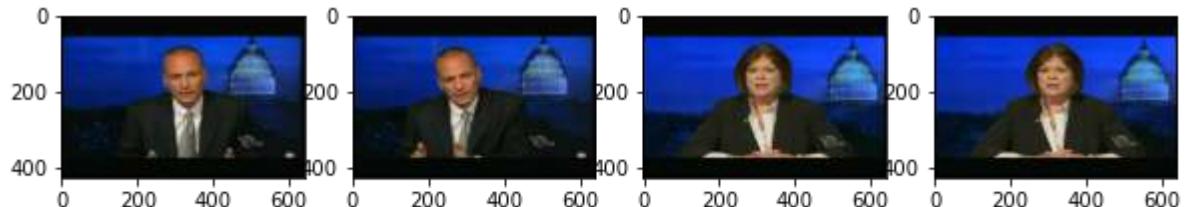
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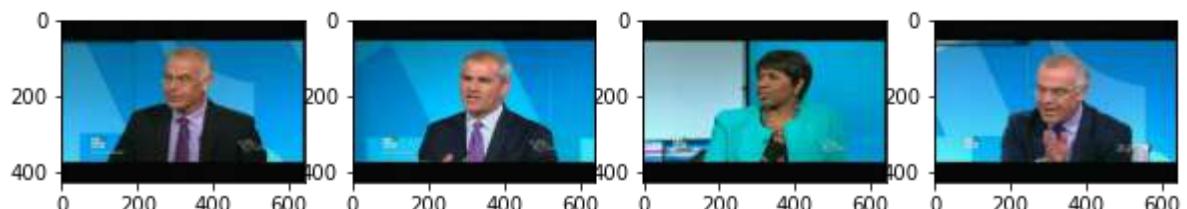
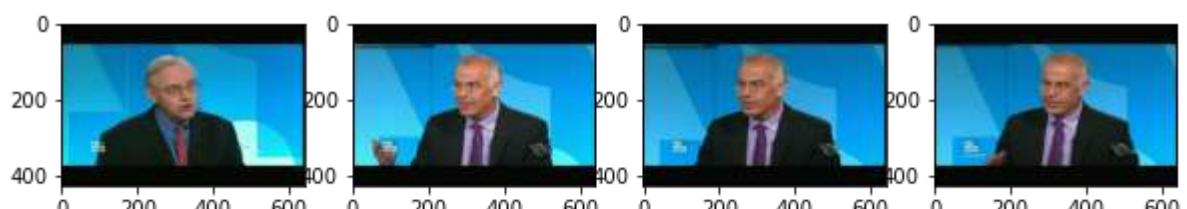
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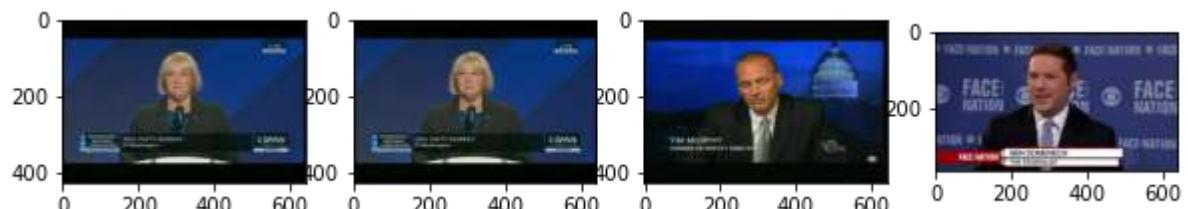
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CLUSTER--> 334 TOTAL IMAGES--> 3



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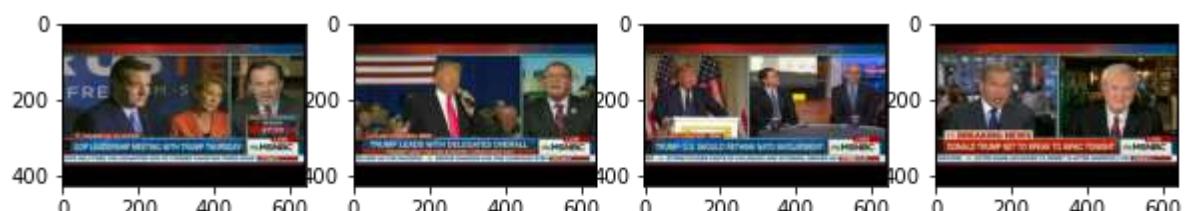
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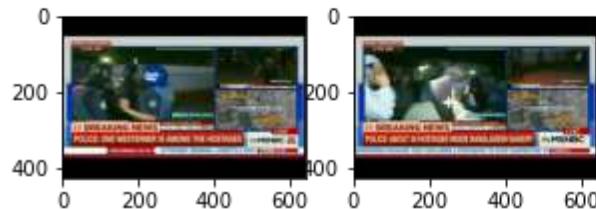
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CLUSTER--> 338 TOTAL IMAGES--> 5



CLUSTER--> 339 TOTAL IMAGES--> 6



CLUSTER--> 340 TOTAL IMAGES--> 3



CLUSTER--> 341 TOTAL IMAGES--> 4



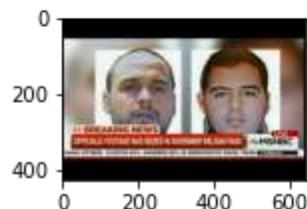
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CLUSTER--> 343 TOTAL IMAGES--> 3



CLUSTER--> 344 TOTAL IMAGES--> 5



CLUSTER--> 345 TOTAL IMAGES--> 3



CLUSTER--> 346 TOTAL IMAGES--> 3



CLUSTER--> 347 TOTAL IMAGES--> 5



CLUSTER--> 348 TOTAL IMAGES--> 5



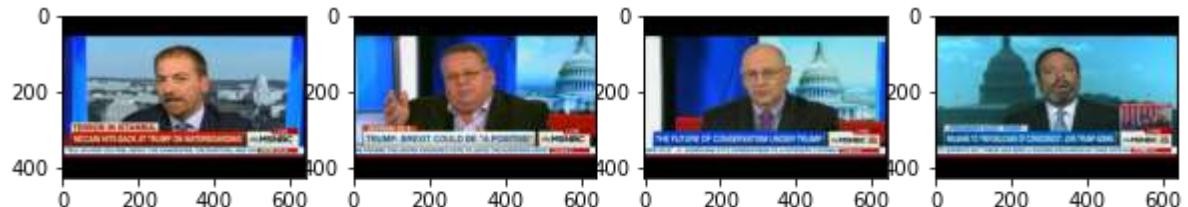
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CLUSTER--> 352 TOTAL IMAGES--> 3



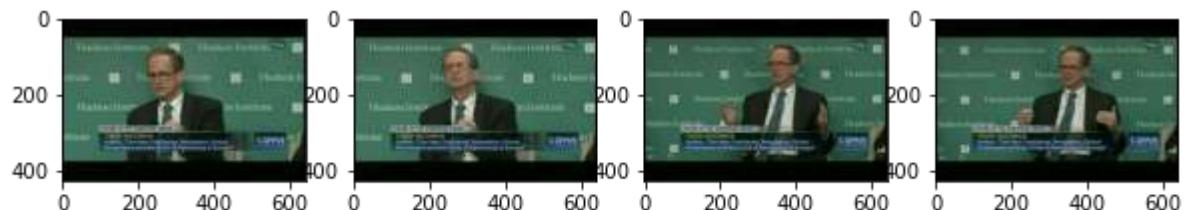
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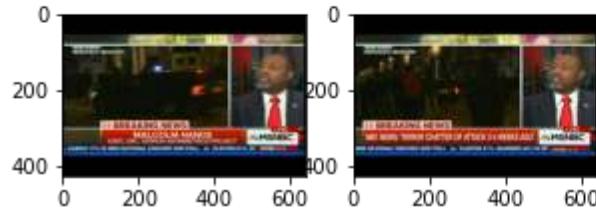
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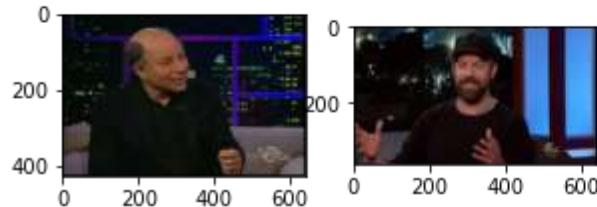
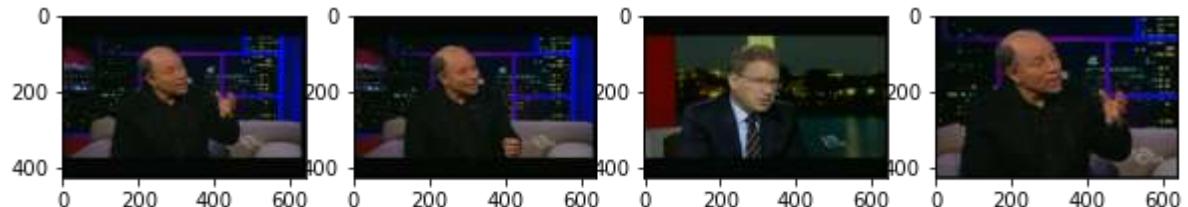
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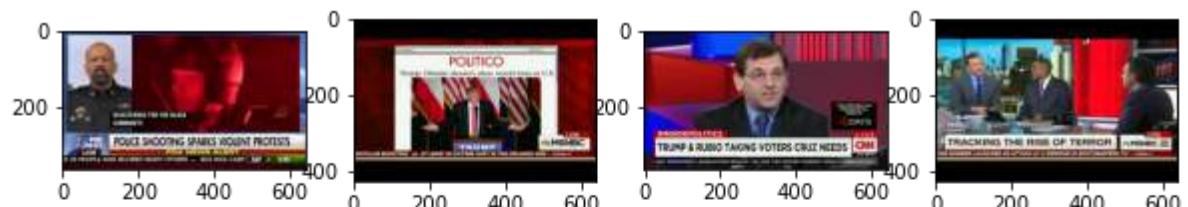
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CLUSTER--> 358 TOTAL IMAGES--> 6



CLUSTER--> 359 TOTAL IMAGES--> 5



CLUSTER--> 360 TOTAL IMAGES--> 4



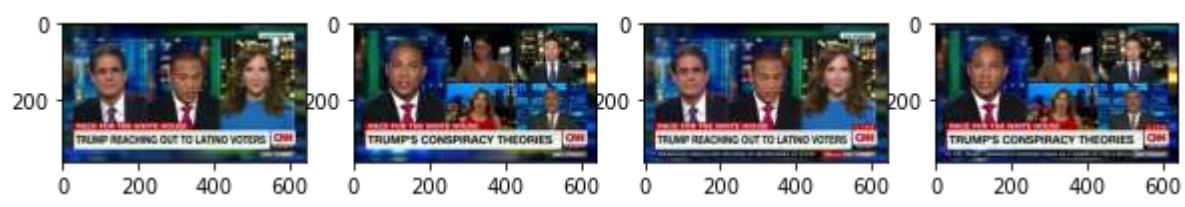
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CLUSTER--> 362 TOTAL IMAGES--> 5



CLUSTER--> 363 TOTAL IMAGES--> 4



CLUSTER--> 364 TOTAL IMAGES--> 3



CLUSTER--> 365 TOTAL IMAGES--> 3



CLUSTER--> 366 TOTAL IMAGES--> 3



CLUSTER--> 367 TOTAL IMAGES--> 7



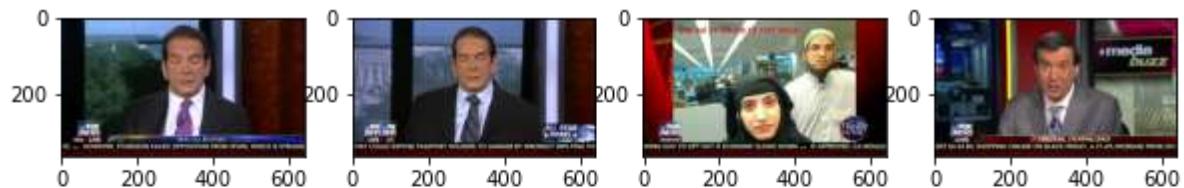
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CLUSTER--> 369 TOTAL IMAGES--> 3



CLUSTER--> 370 TOTAL IMAGES--> 6



CLUSTER--> 371 TOTAL IMAGES--> 3



CLUSTER--> 372 TOTAL IMAGES--> 3



CLUSTER--> 373 TOTAL IMAGES--> 7



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CLUSTER--> 375 TOTAL IMAGES--> 3



CLUSTER--> 376 TOTAL IMAGES--> 3



CLUSTER--> 377 TOTAL IMAGES--> 3



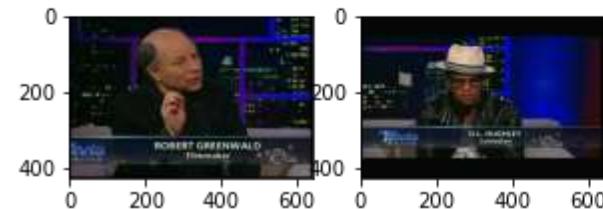
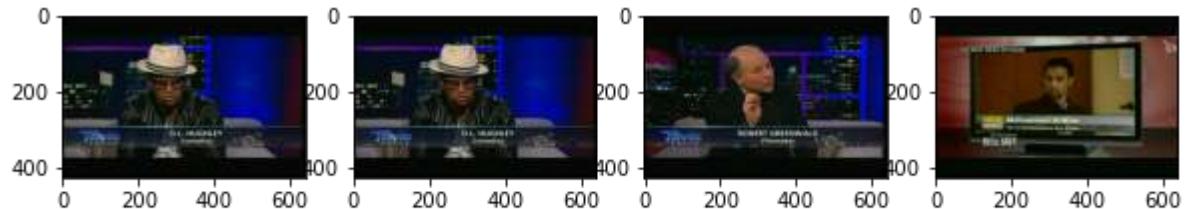
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CLUSTER--> 380 TOTAL IMAGES--> 6



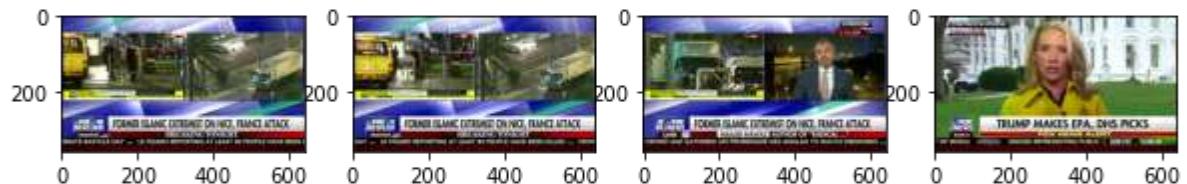
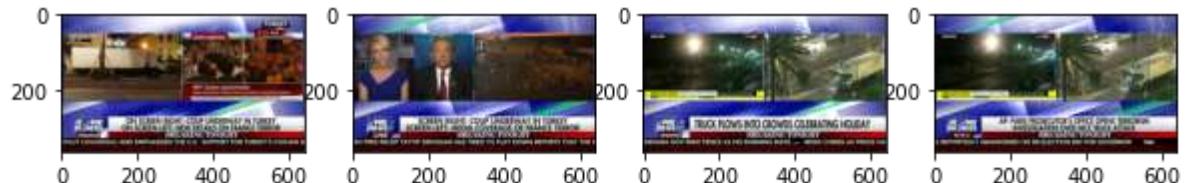
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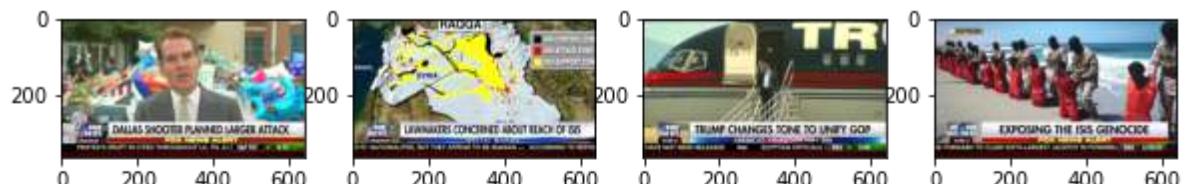
CLUSTER--> 382 TOTAL IMAGES--> 3



CLUSTER--> 383 TOTAL IMAGES--> 10



CLUSTER--> 384 TOTAL IMAGES--> 8



CLUSTER--> 385 TOTAL IMAGES--> 7



CLUSTER--> 386 TOTAL IMAGES--> 3



CLUSTER--> 387 TOTAL IMAGES--> 3



CLUSTER--> 388 TOTAL IMAGES--> 3



CLUSTER--> 389 TOTAL IMAGES--> 3



CLUSTER--> 390 TOTAL IMAGES--> 7



CLUSTER--> 391 TOTAL IMAGES--> 6



CLUSTER--> 392 TOTAL IMAGES--> 4



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CLUSTER--> 395 TOTAL IMAGES--> 4



CLUSTER--> 396 TOTAL IMAGES--> 3



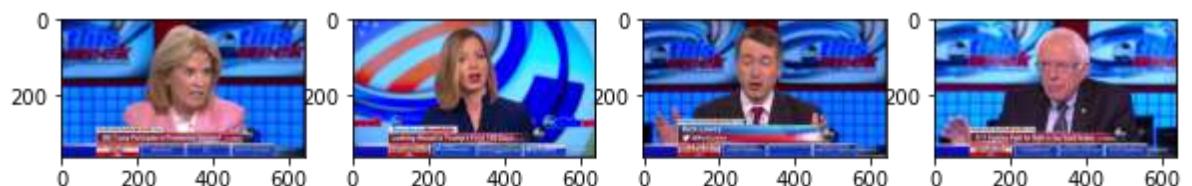
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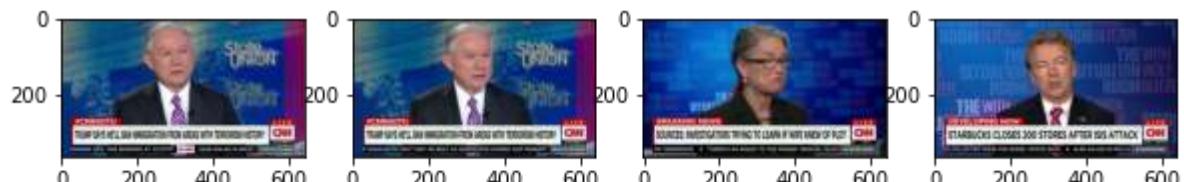
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CLUSTER--> 400 TOTAL IMAGES--> 3



CLUSTER--> 401 TOTAL IMAGES--> 7



CLUSTER--> 402 TOTAL IMAGES--> 3



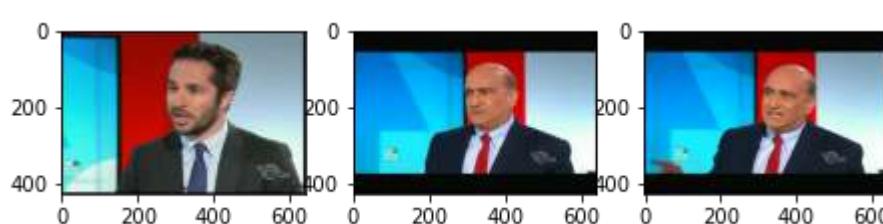
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CLUSTER--> 404 TOTAL IMAGES--> 3



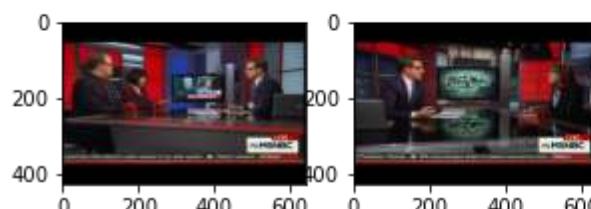
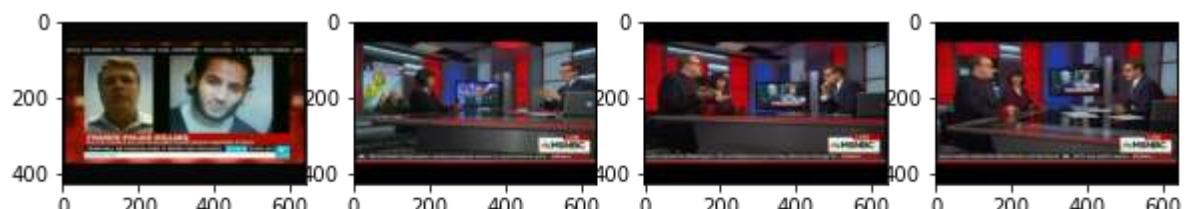
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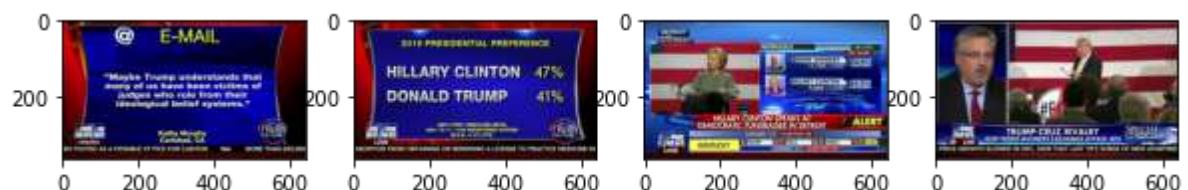
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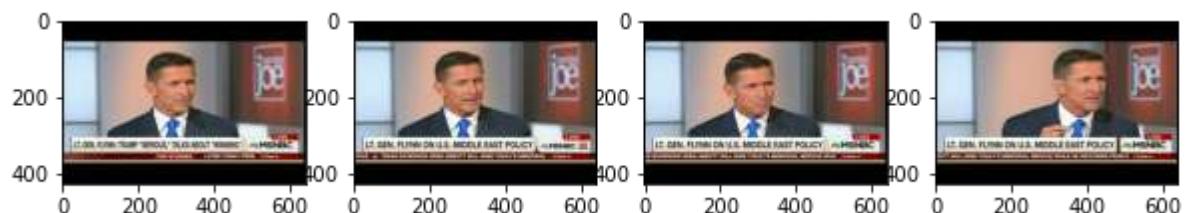
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CLUSTER--> 408 TOTAL IMAGES--> 4



CLUSTER--> 409 TOTAL IMAGES--> 4



CLUSTER--> 410 TOTAL IMAGES--> 9



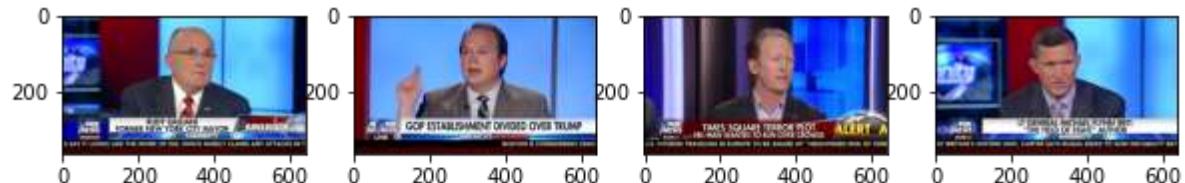
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CLUSTER--> 413 TOTAL IMAGES--> 5



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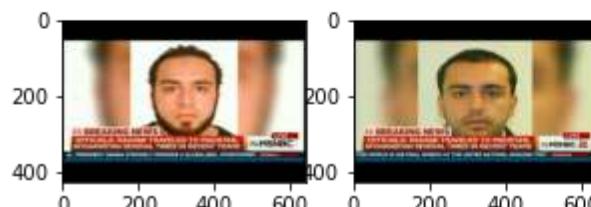
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CLUSTER--> 418 TOTAL IMAGES--> 3



CLUSTER--> 419 TOTAL IMAGES--> 3



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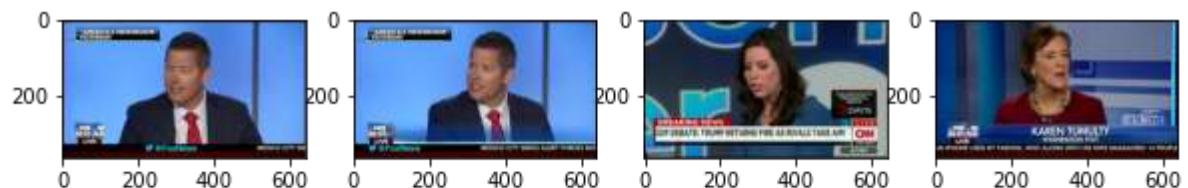
CLUSTER--> 421 TOTAL IMAGES--> 7



CLUSTER--> 422 TOTAL IMAGES--> 3



CLUSTER--> 423 TOTAL IMAGES--> 6



CLUSTER--> 424 TOTAL IMAGES--> 3



CLUSTER--> 425 TOTAL IMAGES--> 4



CLUSTER--> 426 TOTAL IMAGES--> 6



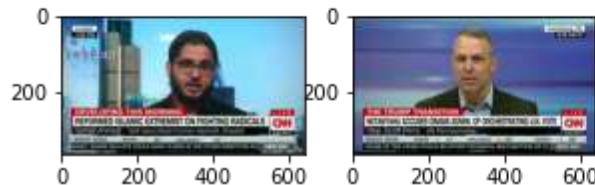
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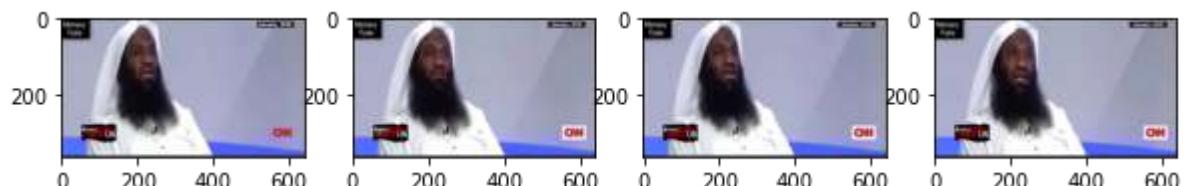
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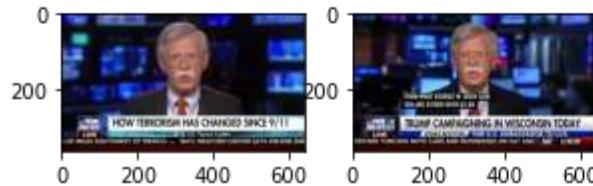
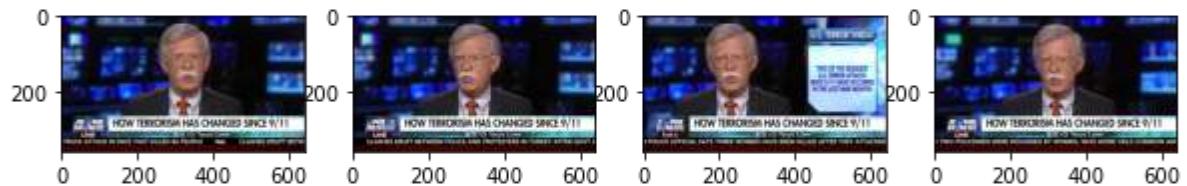
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CLUSTER--> 433 TOTAL IMAGES--> 4



CLUSTER--> 434 TOTAL IMAGES--> 3



CLUSTER--> 435 TOTAL IMAGES--> 4



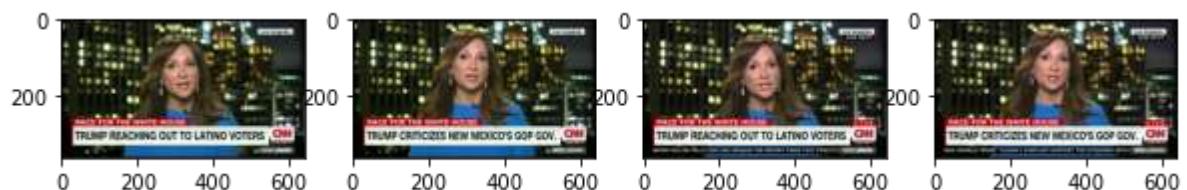
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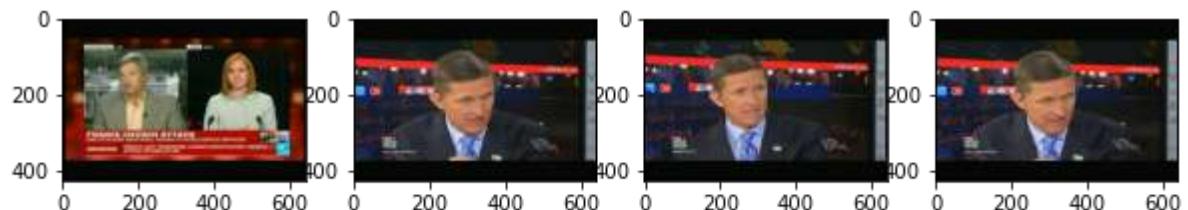
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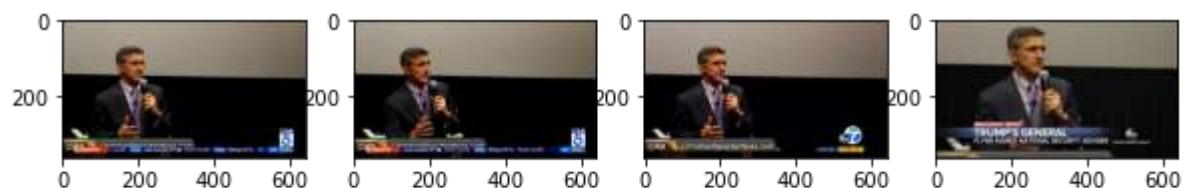
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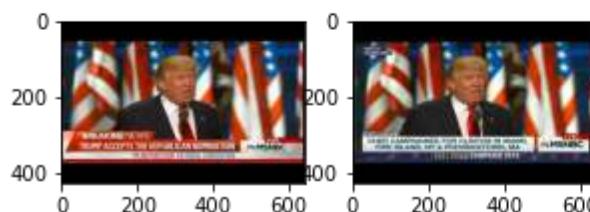
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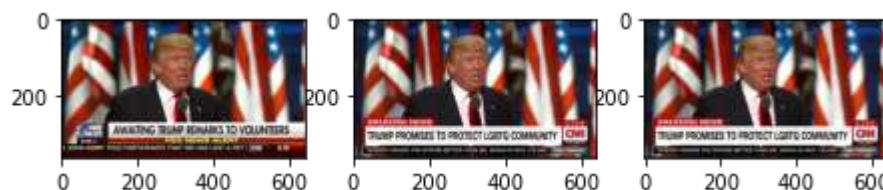
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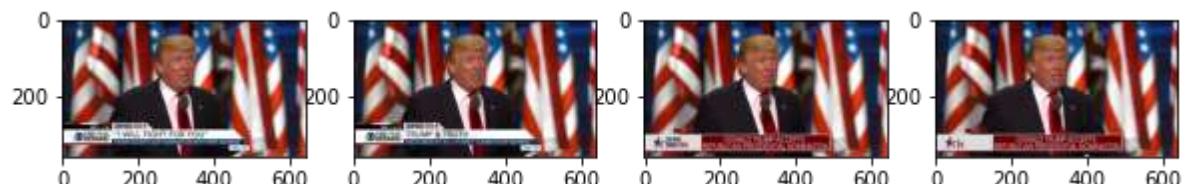
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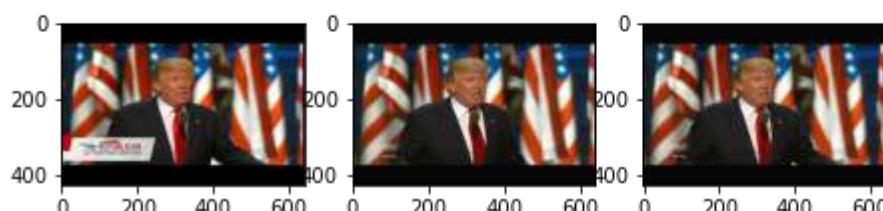
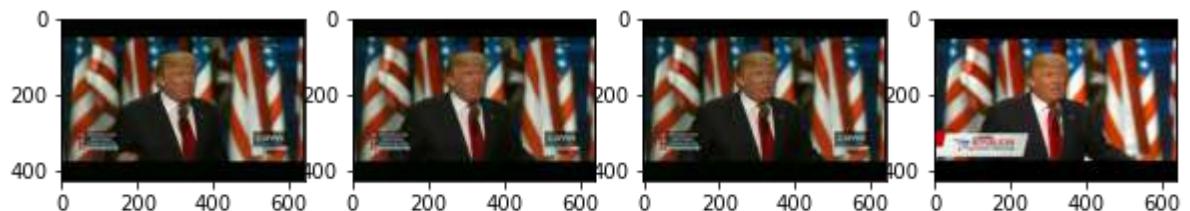
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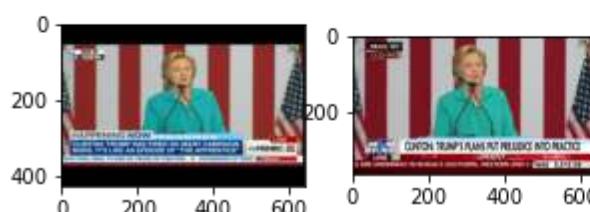
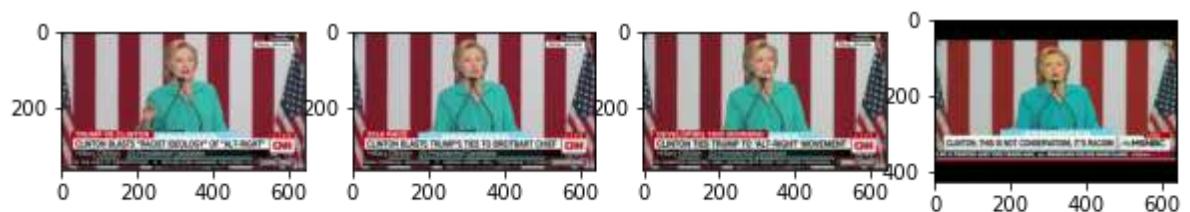
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CLUSTER--> 453 TOTAL IMAGES--> 7



CLUSTER--> 454 TOTAL IMAGES--> 6



CLUSTER--> 455 TOTAL IMAGES--> 4



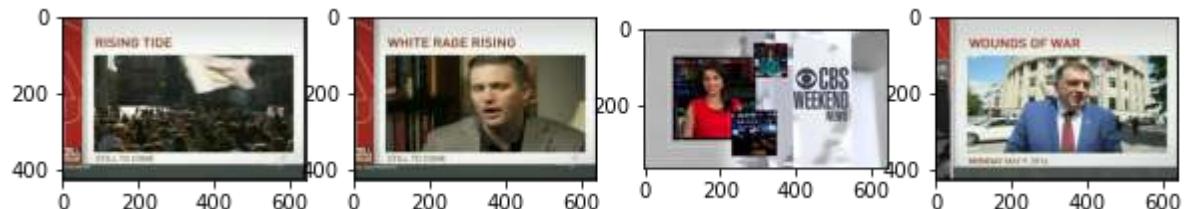
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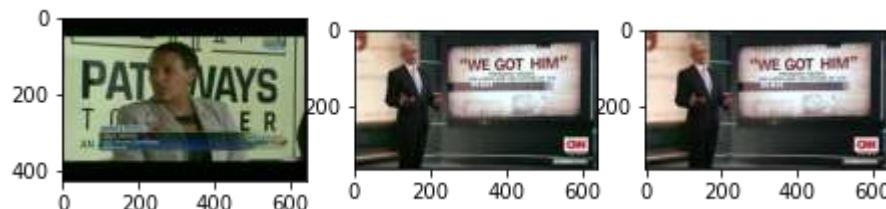
CLUSTER--> 457 TOTAL IMAGES--> 5



CLUSTER--> 458 TOTAL IMAGES--> 4



CLUSTER--> 459 TOTAL IMAGES--> 3



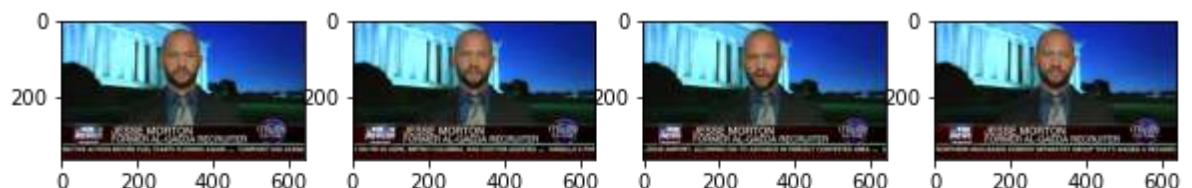
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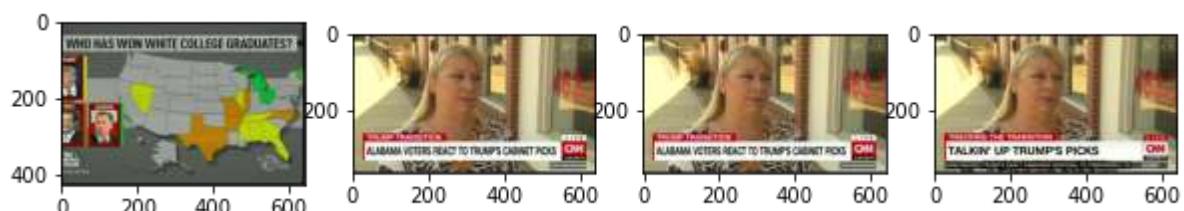
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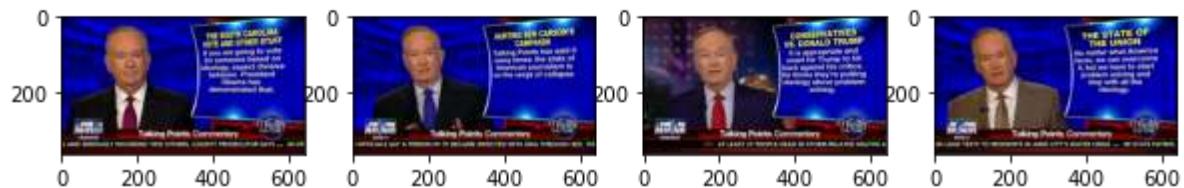
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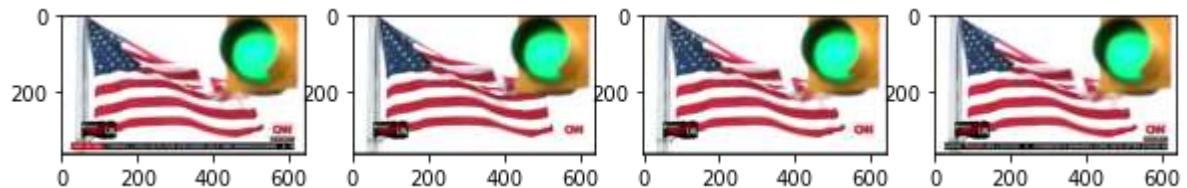
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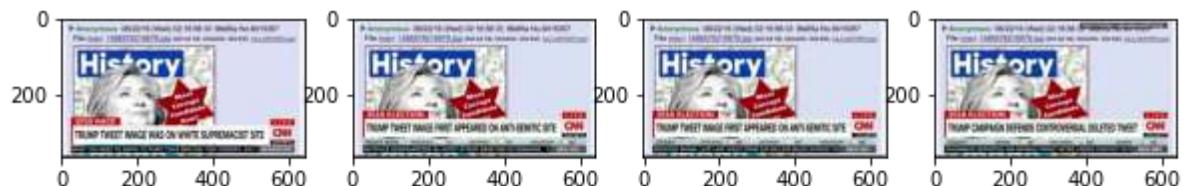
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CLUSTER--> 470 TOTAL IMAGES--> 3



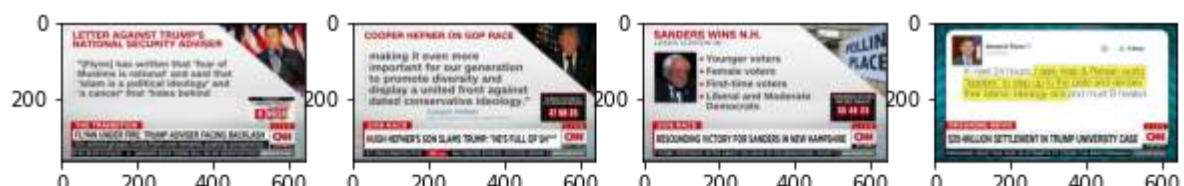
CLUSTER--> 471 TOTAL IMAGES--> 5



CLUSTER--> 472 TOTAL IMAGES--> 3



CLUSTER--> 473 TOTAL IMAGES--> 5



CLUSTER--> 474 TOTAL IMAGES--> 11



CLUSTER--> 475 TOTAL IMAGES--> 3



CLUSTER--> 476 TOTAL IMAGES--> 7



In []: