

Code Script

```
[ ]: import cv2
import glob
import numpy as np
import matplotlib.pyplot as plt
from skimage.transform import resize
from IPython.display import clear_output
from matplotlib.pyplot import imshow
import pandas as pd
from tensorflow.keras.layers import *
from tensorflow.keras.models import Sequential, Model
from tensorflow.keras.utils import to_categorical
from tensorflow.keras.losses import *
from tensorflow.keras.optimizers import *
from tensorflow.keras.activations import *
from tensorflow.keras.metrics import *
from sklearn.model_selection import train_test_split
import tensorflow.keras as keras
import tensorflow as tf
from tensorflow.keras import backend as k
import datetime
```

```
/opt/conda/lib/python3.10/site-packages/tensorflow_io/python/ops/__init__.py:98:
UserWarning: unable to load libtensorflow_io_plugins.so: unable to open file:
libtensorflow_io_plugins.so, from paths: ['/opt/conda/lib/python3.10/site-
packages/tensorflow_io/python/ops/libtensorflow_io_plugins.so']
caused by: ['/opt/conda/lib/python3.10/site-
packages/tensorflow_io/python/ops/libtensorflow_io_plugins.so: undefined symbol:
_ZN3tsl6StatusC1EN10tensorflow5error4CodeESt17basic_string_viewIcSt11char_traits
IcEENS_14SourceLocationE']
  warnings.warn(f"unable to load libtensorflow_io_plugins.so: {e}")
/opt/conda/lib/python3.10/site-
packages/tensorflow_io/python/ops/__init__.py:104: UserWarning: file system
plugins are not loaded: unable to open file: libtensorflow_io.so, from paths:
['/opt/conda/lib/python3.10/site-
packages/tensorflow_io/python/ops/libtensorflow_io.so']
caused by: ['/opt/conda/lib/python3.10/site-
packages/tensorflow_io/python/ops/libtensorflow_io.so: undefined symbol:
_ZTVN10tensorflow13GcsFileSystemE']
```

```
warnings.warn(f"file system plugins are not loaded: {e}")
```

```
[ ]: train_df = pd.read_csv("../input/ucf101/UCF101TrainTestSplits-RecognitionTask/
    ↳ucfTrainTestlist/trainlist01.txt",sep = " ",header = None,names = _
    ↳['path','class'])
train_df
```

```
[ ]:
      path      class
0  ApplyEyeMakeup/v_ApplyEyeMakeup_g08_c01.avi      1
1  ApplyEyeMakeup/v_ApplyEyeMakeup_g08_c02.avi      1
2  ApplyEyeMakeup/v_ApplyEyeMakeup_g08_c03.avi      1
3  ApplyEyeMakeup/v_ApplyEyeMakeup_g08_c04.avi      1
4  ApplyEyeMakeup/v_ApplyEyeMakeup_g08_c05.avi      1
...
9532  YoYo/v_YoYo_g25_c01.avi    101
9533  YoYo/v_YoYo_g25_c02.avi    101
9534  YoYo/v_YoYo_g25_c03.avi    101
9535  YoYo/v_YoYo_g25_c04.avi    101
9536  YoYo/v_YoYo_g25_c05.avi    101
```

```
[9537 rows x 2 columns]
```

```
[ ]: df = pd.read_csv("/input/ucf101/UCF101TrainTestSplits-RecognitionTask/
    ↳ucfTrainTestlist/classInd.txt",sep = " ",header = None,names = _
    ↳['class','ind'])
df
```

```
[ ]:
      class      ind
0         1  ApplyEyeMakeup
1         2  ApplyLipstick
2         3    Archery
3         4  BabyCrawling
4         5  BalanceBeam
..
96        97  VolleyballSpiking
97        98  WalkingWithDog
98        99    WallPushups
99       100  WritingOnBoard
100       101         YoYo
```

```
[101 rows x 2 columns]
```

```
[ ]: content = []
i = 50
n = 50
while len(content) < 20 and i < 102:
    if len(train_df[train_df['class']==i]) >= n:
        df_temp = train_df[train_df['class']==i].iloc[:n]
```

```

        path = df_temp['path']
        content.append(path)

    i += 1

content = np.array(content)

```

```
[ ]: content
```

```

[ ]: array(['Knitting/v_Knitting_g08_c01.avi',
            'Knitting/v_Knitting_g08_c02.avi',
            'Knitting/v_Knitting_g08_c03.avi',
            'Knitting/v_Knitting_g08_c04.avi',
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 'PommelHorse/v_PommelHorse_g13_c04.avi',
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```

```
[ ]: content.shape
```

```
[ ]: (20, 50)
```

```
[ ]: content = content.reshape(1000,)
      content
```

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[ ]: array(['Knitting/v_Knitting_g08_c01.avi',
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'PoleVault/v_PoleVault_g13_c04.avi',
'PoleVault/v_PoleVault_g13_c05.avi',
'PoleVault/v_PoleVault_g14_c01.avi',
'PoleVault/v_PoleVault_g14_c02.avi',
'PoleVault/v_PoleVault_g14_c03.avi',
'PoleVault/v_PoleVault_g14_c04.avi',
'PoleVault/v_PoleVault_g14_c05.avi',
'PoleVault/v_PoleVault_g14_c06.avi',
'PoleVault/v_PoleVault_g14_c07.avi',
'PoleVault/v_PoleVault_g15_c01.avi',
'PoleVault/v_PoleVault_g15_c02.avi',
'PoleVault/v_PoleVault_g15_c03.avi',
'PoleVault/v_PoleVault_g15_c04.avi',
'PoleVault/v_PoleVault_g16_c01.avi',
'PoleVault/v_PoleVault_g16_c02.avi',
'PoleVault/v_PoleVault_g16_c03.avi',
'PoleVault/v_PoleVault_g16_c04.avi',
'PoleVault/v_PoleVault_g16_c05.avi',
'PoleVault/v_PoleVault_g16_c06.avi',
'PoleVault/v_PoleVault_g16_c07.avi',
'PommelHorse/v_PommelHorse_g08_c01.avi',
'PommelHorse/v_PommelHorse_g08_c02.avi',
'PommelHorse/v_PommelHorse_g08_c03.avi',
'PommelHorse/v_PommelHorse_g08_c04.avi',
'PommelHorse/v_PommelHorse_g09_c01.avi',
'PommelHorse/v_PommelHorse_g09_c02.avi',
'PommelHorse/v_PommelHorse_g09_c03.avi',
'PommelHorse/v_PommelHorse_g09_c04.avi',
'PommelHorse/v_PommelHorse_g10_c01.avi',
'PommelHorse/v_PommelHorse_g10_c02.avi',
'PommelHorse/v_PommelHorse_g10_c03.avi',
'PommelHorse/v_PommelHorse_g10_c04.avi',

```
[ ]: y = np.array([i//50 for i in range(0,1000)])
      y
```

```
[ ]: array([ 0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,
          0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,
          0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  0,  1,
          1,  1,  1,  1,  1,  1,  1,  1,  1,  1,  1,  1,  1,  1,  1,  1,  1,  1,
          1,  1,  1,  1,  1,  1,  1,  1,  1,  1,  1,  1,  1,  1,  1,  1,  1,  1])
```

[illegible]

17, 17, 17, 17, 17, 17, 17, 17, 17, 17, 17, 17, 17, 17, 17, 18,
18, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18,
18, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18,
18, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18, 19, 19,
19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19,
19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19,
19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19, 19,

```
[ ]: def read_frames(root_folder,arr,each_nth=10):
    videos=[]
    for j in range(len(arr)):
        clear_output()
        print(np.round(100*j/len(arr),3))

        vcap=cv2.VideoCapture(root_folder+arr[j])
        success=True

        frames=[]
        cnt=0
        while success:
            try:
                success,image=vcap.read()
                cnt+=1
                if cnt%each_nth==0:
                    image=resize(image,(128,192))
                    frames.append(image)
            except Exception as e:
                print(e)
        videos.append(frames)

    return videos
```

```
[ ]: def select_frames(frames_arr , n=10):
    videos=[]
    for i in range(len(frames_arr)):
        frames=[]
        for t in np.linspace(0, len(frames_arr[i])-1, num=n):
            frames.append(frames_arr[i][int(t)])
        videos.append(frames)

    videos = np.array(videos)
    print(videos.shape)
    return videos
```

```
[ ]: X_frames = read_frames("../input/ucf101/UCF101/UCF-101/",content)
X_frames = select_frames(X frames, 10)
```

```
(1000, 10, 128, 192, 3)
```

```
[ ]: np.save('/working/xframes.npy',X_frames)
```

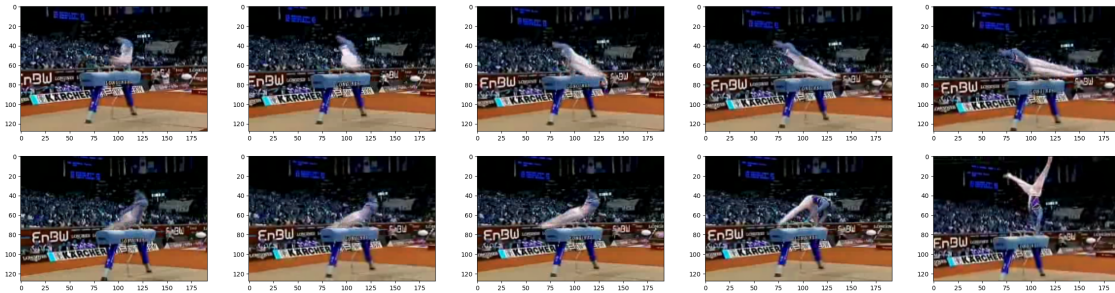
```
[ ]: y_n = to_categorical(y, 20)
```

```
[ ]: xtr, xte, ytr , yte = train_test_split(X_frames , y_n , shuffle=True,test_size_u  
↳ 0.2,random_state = 42)
```

```
[ ]: fig = plt.figure(figsize=(32,8))

random_video_index = np.random.randint(0,len(X_frames))

for i,image in enumerate(X_frames[random_video_index]):
    ax = plt.subplot(2,5,i+1)
    imshow(image)
```



```
[ ]: def list_to_stack(xs):
    xs=tf.stack(xs, axis=1)
    s = tf.shape(xs)

    return xs
```

```
[ ]: ish=(10, 128, 192, 3)

xs=[]

inp = Input(ish)

for slice_indx in range(0,10,1):
    x=Lambda(lambda x: x[:, slice_indx])(inp)
    x=BatchNormalization(momentum=0.8)(x)
    x=Conv2D(filters=20, kernel_size=3, padding='same', activation='relu')(x)
    x=BatchNormalization(momentum=0.8)(x)
    x=MaxPooling2D(pool_size=2)(x)
```

```

x=Conv2D(filters=30, kernel_size=3, padding='same', activation='relu')(x)
x=BatchNormalization(momentum=0.8)(x)
x=MaxPooling2D(pool_size=2)(x)
x=Conv2D(filters=30, kernel_size=3, padding='same', activation='relu')(x)

xs.append(x)

t=Lambda(list_to_stack)(xs)
t=Conv3D(50,3,padding='same')(t)
t=BatchNormalization(momentum=0.8)(t)
target_shape=(10,32*48*50)
t=Reshape(target_shape)(t)
t=GRU(25, return_sequences=True)(t)
t=GRU(50, return_sequences=False,dropout=0.5)(t)

t=Dense(100,'relu')(t)
out=Dense(20, activation='softmax')(t)

model = Model(inputs=inp, outputs=out)
opt = tf.keras.optimizers.SGD(lr=0.0087)
model.compile(loss = "categorical_crossentropy", optimizer = opt,
              metrics=['accuracy'])
model.summary()

```

Model: "model"

Layer (type)	Output Shape	Param #	Connected to
=====			
input_1 (InputLayer)	[(None, 10, 128, 19 0 2, 3)]	0	[]
lambda (Lambda)	(None, 128, 192, 3)	0	['input_1[0][0]']
lambda_1 (Lambda)	(None, 128, 192, 3)	0	['input_1[0][0]']
lambda_2 (Lambda)	(None, 128, 192, 3)	0	['input_1[0][0]']
lambda_3 (Lambda)	(None, 128, 192, 3)	0	['input_1[0][0]']
lambda_4 (Lambda)	(None, 128, 192, 3)	0	

```

['input_1[0][0]']

lambda_5 (Lambda)          (None, 128, 192, 3) 0
['input_1[0][0]']

lambda_6 (Lambda)          (None, 128, 192, 3) 0
['input_1[0][0]']

lambda_7 (Lambda)          (None, 128, 192, 3) 0
['input_1[0][0]']

lambda_8 (Lambda)          (None, 128, 192, 3) 0
['input_1[0][0]']

lambda_9 (Lambda)          (None, 128, 192, 3) 0
['input_1[0][0]']

batch_normalization (BatchNorm (None, 128, 192, 3) 12
['lambda[0][0]']
alization)

batch_normalization_3 (BatchNo (None, 128, 192, 3) 12
['lambda_1[0][0]']
rmalization)

batch_normalization_6 (BatchNo (None, 128, 192, 3) 12
['lambda_2[0][0]']
rmalization)

batch_normalization_9 (BatchNo (None, 128, 192, 3) 12
['lambda_3[0][0]']
rmalization)

batch_normalization_12 (BatchN (None, 128, 192, 3) 12
['lambda_4[0][0]']
ormalization)

batch_normalization_15 (BatchN (None, 128, 192, 3) 12
['lambda_5[0][0]']
ormalization)

batch_normalization_18 (BatchN (None, 128, 192, 3) 12
['lambda_6[0][0]']
ormalization)

batch_normalization_21 (BatchN (None, 128, 192, 3) 12
['lambda_7[0][0]']
ormalization)

```



```

batch_normalization_24 (BatchN  (None, 128, 192, 3)  12
['lambda_8[0][0]']
ormalization)

batch_normalization_27 (BatchN  (None, 128, 192, 3)  12
['lambda_9[0][0]']
ormalization)

conv2d (Conv2D)                (None, 128, 192, 20  560
['batch_normalization[0][0]']
)

conv2d_3 (Conv2D)              (None, 128, 192, 20  560
['batch_normalization_3[0][0]']
)

conv2d_6 (Conv2D)              (None, 128, 192, 20  560
['batch_normalization_6[0][0]']
)

conv2d_9 (Conv2D)              (None, 128, 192, 20  560
['batch_normalization_9[0][0]']
)

conv2d_12 (Conv2D)             (None, 128, 192, 20  560
['batch_normalization_12[0][0]']
)

conv2d_15 (Conv2D)             (None, 128, 192, 20  560
['batch_normalization_15[0][0]']
)

conv2d_18 (Conv2D)             (None, 128, 192, 20  560
['batch_normalization_18[0][0]']
)

conv2d_21 (Conv2D)             (None, 128, 192, 20  560
['batch_normalization_21[0][0]']
)

conv2d_24 (Conv2D)             (None, 128, 192, 20  560
['batch_normalization_24[0][0]']
)

conv2d_27 (Conv2D)             (None, 128, 192, 20  560
['batch_normalization_27[0][0]']
)

```

```

batch_normalization_1 (BatchNormaliz (None, 128, 192, 20) 80
['conv2d_0[0][0]'])
rmalization)

batch_normalization_4 (BatchNormaliz (None, 128, 192, 20) 80
['conv2d_3[0][0]'])
rmalization)

batch_normalization_7 (BatchNormaliz (None, 128, 192, 20) 80
['conv2d_6[0][0]'])
rmalization)

batch_normalization_10 (BatchNormaliz (None, 128, 192, 20) 80
['conv2d_9[0][0]'])
ormalization)

batch_normalization_13 (BatchNormaliz (None, 128, 192, 20) 80
['conv2d_12[0][0]'])
ormalization)

batch_normalization_16 (BatchNormaliz (None, 128, 192, 20) 80
['conv2d_15[0][0]'])
ormalization)

batch_normalization_19 (BatchNormaliz (None, 128, 192, 20) 80
['conv2d_18[0][0]'])
ormalization)

batch_normalization_22 (BatchNormaliz (None, 128, 192, 20) 80
['conv2d_21[0][0]'])
ormalization)

batch_normalization_25 (BatchNormaliz (None, 128, 192, 20) 80
['conv2d_24[0][0]'])
ormalization)

batch_normalization_28 (BatchNormaliz (None, 128, 192, 20) 80
['conv2d_27[0][0]'])
ormalization)

max_pooling2d (MaxPooling2D) (None, 64, 96, 20) 0
['batch_normalization_1[0][0]'])

max_pooling2d_2 (MaxPooling2D) (None, 64, 96, 20) 0
['batch_normalization_4[0][0]'])

max_pooling2d_4 (MaxPooling2D) (None, 64, 96, 20) 0

```

```

['batch_normalization_7[0][0]']

max_pooling2d_6 (MaxPooling2D) (None, 64, 96, 20) 0
['batch_normalization_10[0][0]']

max_pooling2d_8 (MaxPooling2D) (None, 64, 96, 20) 0
['batch_normalization_13[0][0]']

max_pooling2d_10 (MaxPooling2D) (None, 64, 96, 20) 0
['batch_normalization_16[0][0]']
)

max_pooling2d_12 (MaxPooling2D) (None, 64, 96, 20) 0
['batch_normalization_19[0][0]']
)

max_pooling2d_14 (MaxPooling2D) (None, 64, 96, 20) 0
['batch_normalization_22[0][0]']
)

max_pooling2d_16 (MaxPooling2D) (None, 64, 96, 20) 0
['batch_normalization_25[0][0]']
)

max_pooling2d_18 (MaxPooling2D) (None, 64, 96, 20) 0
['batch_normalization_28[0][0]']
)

conv2d_1 (Conv2D) (None, 64, 96, 30) 5430
['max_pooling2d[0][0]']

conv2d_4 (Conv2D) (None, 64, 96, 30) 5430
['max_pooling2d_2[0][0]']

conv2d_7 (Conv2D) (None, 64, 96, 30) 5430
['max_pooling2d_4[0][0]']

conv2d_10 (Conv2D) (None, 64, 96, 30) 5430
['max_pooling2d_6[0][0]']

conv2d_13 (Conv2D) (None, 64, 96, 30) 5430
['max_pooling2d_8[0][0]']

conv2d_16 (Conv2D) (None, 64, 96, 30) 5430
['max_pooling2d_10[0][0]']

conv2d_19 (Conv2D) (None, 64, 96, 30) 5430
['max_pooling2d_12[0][0]']

```

conv2d_22 (Conv2D)	(None, 64, 96, 30)	5430
['max_pooling2d_14[0][0]']		
conv2d_25 (Conv2D)	(None, 64, 96, 30)	5430
['max_pooling2d_16[0][0]']		
conv2d_28 (Conv2D)	(None, 64, 96, 30)	5430
['max_pooling2d_18[0][0]']		
batch_normalization_2 (BatchNo	(None, 64, 96, 30)	120
['conv2d_1[0][0]']		
rmalization)		
batch_normalization_5 (BatchNo	(None, 64, 96, 30)	120
['conv2d_4[0][0]']		
rmalization)		
batch_normalization_8 (BatchNo	(None, 64, 96, 30)	120
['conv2d_7[0][0]']		
rmalization)		
batch_normalization_11 (BatchN	(None, 64, 96, 30)	120
['conv2d_10[0][0]']		
ormalization)		
batch_normalization_14 (BatchN	(None, 64, 96, 30)	120
['conv2d_13[0][0]']		
ormalization)		
batch_normalization_17 (BatchN	(None, 64, 96, 30)	120
['conv2d_16[0][0]']		
ormalization)		
batch_normalization_20 (BatchN	(None, 64, 96, 30)	120
['conv2d_19[0][0]']		
ormalization)		
batch_normalization_23 (BatchN	(None, 64, 96, 30)	120
['conv2d_22[0][0]']		
ormalization)		
batch_normalization_26 (BatchN	(None, 64, 96, 30)	120
['conv2d_25[0][0]']		
ormalization)		
batch_normalization_29 (BatchN	(None, 64, 96, 30)	120
['conv2d_28[0][0]']		

```

ormalization)

max_pooling2d_1 (MaxPooling2D) (None, 32, 48, 30) 0
['batch_normalization_2[0][0]']

max_pooling2d_3 (MaxPooling2D) (None, 32, 48, 30) 0
['batch_normalization_5[0][0]']

max_pooling2d_5 (MaxPooling2D) (None, 32, 48, 30) 0
['batch_normalization_8[0][0]']

max_pooling2d_7 (MaxPooling2D) (None, 32, 48, 30) 0
['batch_normalization_11[0][0]']

max_pooling2d_9 (MaxPooling2D) (None, 32, 48, 30) 0
['batch_normalization_14[0][0]']

max_pooling2d_11 (MaxPooling2D) (None, 32, 48, 30) 0
['batch_normalization_17[0][0]']
)

max_pooling2d_13 (MaxPooling2D) (None, 32, 48, 30) 0
['batch_normalization_20[0][0]']
)

max_pooling2d_15 (MaxPooling2D) (None, 32, 48, 30) 0
['batch_normalization_23[0][0]']
)

max_pooling2d_17 (MaxPooling2D) (None, 32, 48, 30) 0
['batch_normalization_26[0][0]']
)

max_pooling2d_19 (MaxPooling2D) (None, 32, 48, 30) 0
['batch_normalization_29[0][0]']
)

conv2d_2 (Conv2D) (None, 32, 48, 30) 8130
['max_pooling2d_1[0][0]']

conv2d_5 (Conv2D) (None, 32, 48, 30) 8130
['max_pooling2d_3[0][0]']

conv2d_8 (Conv2D) (None, 32, 48, 30) 8130
['max_pooling2d_5[0][0]']

conv2d_11 (Conv2D) (None, 32, 48, 30) 8130
['max_pooling2d_7[0][0]']

```

conv2d_14 (Conv2D) ['max_pooling2d_9[0][0]']	(None, 32, 48, 30)	8130	
conv2d_17 (Conv2D) ['max_pooling2d_11[0][0]']	(None, 32, 48, 30)	8130	
conv2d_20 (Conv2D) ['max_pooling2d_13[0][0]']	(None, 32, 48, 30)	8130	
conv2d_23 (Conv2D) ['max_pooling2d_15[0][0]']	(None, 32, 48, 30)	8130	
conv2d_26 (Conv2D) ['max_pooling2d_17[0][0]']	(None, 32, 48, 30)	8130	
conv2d_29 (Conv2D) ['max_pooling2d_19[0][0]']	(None, 32, 48, 30)	8130	
lambda_10 (Lambda) ['conv2d_2[0][0]', 'conv2d_5[0][0]', 'conv2d_8[0][0]', 'conv2d_11[0][0]', 'conv2d_14[0][0]', 'conv2d_17[0][0]', 'conv2d_20[0][0]', 'conv2d_23[0][0]', 'conv2d_26[0][0]', 'conv2d_29[0][0]']	(None, 10, 32, 48, 30)	0	
conv3d (Conv3D) ['lambda_10[0][0]']	(None, 10, 32, 48, 50)	40550	
batch_normalization_30 (Batch Normalization) ['conv3d[0][0]']	(None, 10, 32, 48, 50)	200	
reshape (Reshape) ['batch_normalization_30[0][0]']	(None, 10, 76800)	0	
gru (GRU) ['reshape[0][0]']	(None, 10, 25)	5762025	
gru_1 (GRU)	(None, 50)	11550	['gru[0][0]']

dense (Dense)	(None, 100)	5100	['gru_1[0][0]']
dense_1 (Dense)	(None, 20)	2020	['dense[0][0]']

```
=====
Total params: 5,964,765
Trainable params: 5,963,605
Non-trainable params: 1,160
-----
```

```
[ ]: from tensorflow.keras import callbacks
early_stopping = callbacks.EarlyStopping(monitor='val_loss', patience=3,
↳restore_best_weights=True)
checkpoint = callbacks.ModelCheckpoint('/working/best_model.h5',
↳monitor='val_loss', save_best_only=True)
```

```
[ ]: xtr[0].shape
```

```
[ ]: (10, 128, 192, 3)
```

```
[ ]: ytr.shape
```

```
[ ]: (800, 20)
```

```
[ ]: history1 = model.fit(xtr, ytr, epochs=15, batch_size=10, validation_data=(xte,
↳yte), shuffle = True, callbacks=[early_stopping, checkpoint])
```

```
Epoch 1/15
80/80 [=====] - 280s 3s/step - loss: 2.8626 - accuracy:
0.1737 - val_loss: 2.7092 - val_accuracy: 0.2900
Epoch 2/15
80/80 [=====] - 257s 3s/step - loss: 2.5304 - accuracy:
0.4200 - val_loss: 2.4937 - val_accuracy: 0.4450
Epoch 3/15
80/80 [=====] - 253s 3s/step - loss: 2.2421 - accuracy:
0.5962 - val_loss: 2.2391 - val_accuracy: 0.5550
Epoch 4/15
80/80 [=====] - 253s 3s/step - loss: 1.9480 - accuracy:
0.6913 - val_loss: 1.9670 - val_accuracy: 0.6250
Epoch 5/15
80/80 [=====] - 260s 3s/step - loss: 1.6192 - accuracy:
0.7962 - val_loss: 1.7067 - val_accuracy: 0.6350
Epoch 6/15
80/80 [=====] - 254s 3s/step - loss: 1.2856 - accuracy:
0.8587 - val_loss: 1.4836 - val_accuracy: 0.6650
Epoch 7/15
```

```

80/80 [=====] - 253s 3s/step - loss: 1.0115 - accuracy:
0.9200 - val_loss: 1.2815 - val_accuracy: 0.7300
Epoch 8/15
80/80 [=====] - 253s 3s/step - loss: 0.7544 - accuracy:
0.9700 - val_loss: 1.1883 - val_accuracy: 0.7200
Epoch 9/15
80/80 [=====] - 254s 3s/step - loss: 0.5565 - accuracy:
0.9837 - val_loss: 1.0531 - val_accuracy: 0.7500
Epoch 10/15
80/80 [=====] - 258s 3s/step - loss: 0.4331 - accuracy:
0.9887 - val_loss: 0.9656 - val_accuracy: 0.7700
Epoch 11/15
80/80 [=====] - 251s 3s/step - loss: 0.3308 - accuracy:
1.0000 - val_loss: 0.9452 - val_accuracy: 0.7600
Epoch 12/15
80/80 [=====] - 252s 3s/step - loss: 0.2486 - accuracy:
0.9987 - val_loss: 0.9082 - val_accuracy: 0.7850
Epoch 13/15
80/80 [=====] - 252s 3s/step - loss: 0.1948 - accuracy:
0.9975 - val_loss: 0.8714 - val_accuracy: 0.7800
Epoch 14/15
80/80 [=====] - 251s 3s/step - loss: 0.1634 - accuracy:
1.0000 - val_loss: 0.8763 - val_accuracy: 0.7750
Epoch 15/15
80/80 [=====] - 251s 3s/step - loss: 0.1383 - accuracy:
1.0000 - val_loss: 0.8850 - val_accuracy: 0.7800

```

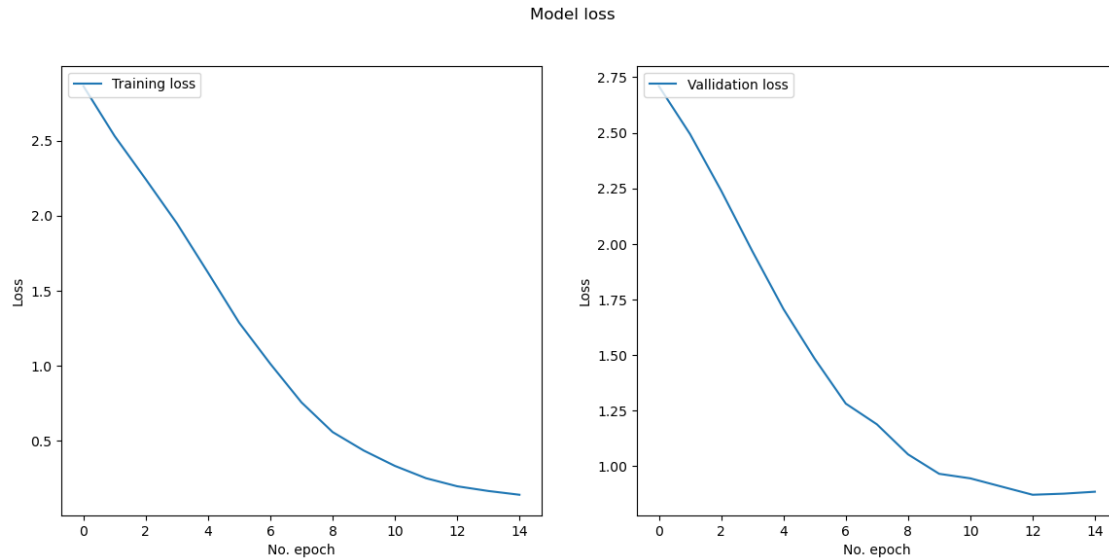
```
[ ]: model.save("/kaggle/working/ModelActionDetector15e.h5")
```

```

[ ]: fig = plt.figure(figsize=(14,6))

ax = plt.subplot(1,2,1)
plt.plot(history1.history['loss'], label='Training loss')
ax.legend(loc="upper left")
plt.ylabel('Loss')
plt.xlabel('No. epoch')
ax = plt.subplot(1,2,2)
plt.plot(history1.history['val_loss'], label='Vallidation loss')
ax.legend(loc="upper left")
fig.suptitle('Model loss')
plt.ylabel('Loss')
plt.xlabel('No. epoch')
plt.show()

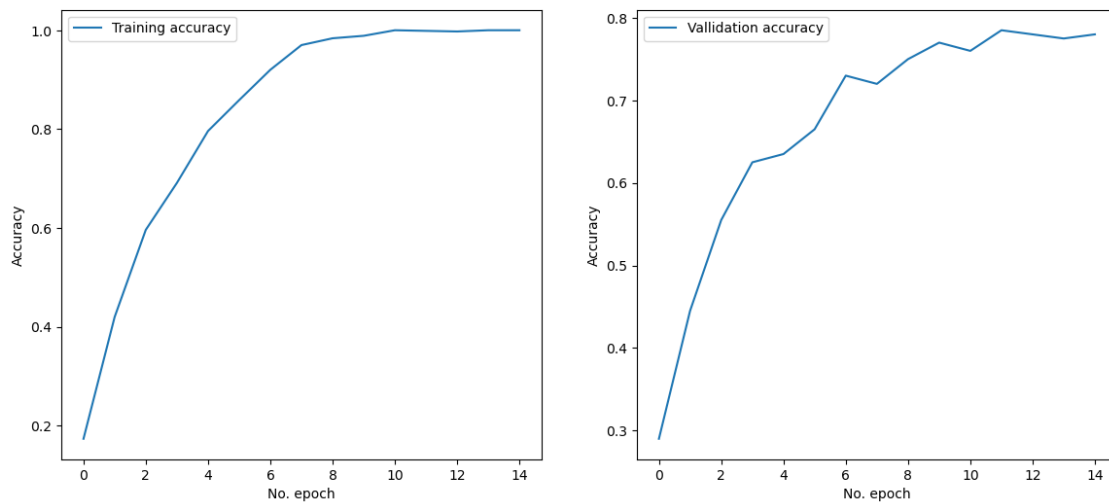
```

```
[ ]: fig = plt.figure(figsize=(14,6))

ax = plt.subplot(1,2,1)
plt.plot(history1.history['accuracy'], label='Training accuracy')
ax.legend(loc="upper left")
plt.ylabel('Accuracy')
plt.xlabel('No. epoch')
ax = plt.subplot(1,2,2)
plt.plot(history1.history['val_accuracy'], label='Vallidation accuracy')
ax.legend(loc="upper left")
fig.suptitle('Model Accuracy')
plt.ylabel('Accuracy')
plt.xlabel('No. epoch')
plt.show()
```

Model Accuracy



```
[ ]: classes = []
for i in range(len(content)):
    class_name = content[i].split('/')[0]
    if class_name not in classes:
        classes.append(class_name)

num_classes = [i for i in range(20)]
class_map = dict(zip(num_classes, classes))
```

```
[ ]: yte
```

```
[ ]: random_videos = np.random.randint(0, len(xte), size=(10))
predicted = model.predict(xte[random_videos], batch_size = 10)
predicted = np.argmax(predicted, axis=1)
```

```
1/1 [=====] - 1s 738ms/step
```

```
[ ]: random_videos
```

```
[ ]: array([ 73, 102,  73, 137,  45, 179, 153,  10,  25,  83])
```

```
[ ]: fig = plt.figure(figsize=(30,10))

for i, rand_indx in enumerate(random_videos):
    ax = plt.subplot(2,5,i+1)
    video = xte[rand_indx]
    frame = video[np.random.randint(0,10)]
    ax.set_title(class_map[predicted[i]])
    imshow(frame)
```

