Testing the model

import numpy as np

from tensorflow.keras.models import load\_model

from tensorflow.keras.preprocessing import image

model=load\_model(&#39;asl\_model\_84\_54.h5&#39;)

img=image.load\_img(r&#39;E:\Projects\SmartBridge\ModelGen\Dataset\test\_set\D\2.png&#39;,

target\_size=(64,64))

img

x=image.img\_to\_array(img)

x.ndim

3

x=np.expand\_dims(x,axis=0)

x.ndim

4

pred=np.argmax(model.predict(x),axis=1)

1/1 [==============================] - 0s 88ms/step

pred

array([3], dtype=int64)

index=[&#39;A&#39;,&#39;B&#39;,&#39;C&#39;,&#39;D&#39;,&#39;E&#39;,&#39;F&#39;,&#39;G&#39;,&#39;H&#39;,&#39;I&#39;]

print(index[pred[0]])

D

Open CV

import cv2

img=cv2.imread(r&#39;E:\Projects\SmartBridge\ModelGen\Dataset\test\_set\C\2.png&#39;,1)

img1=cv2.imread(r&#39;E:\Projects\SmartBridge\ModelGen\Dataset\test\_set\B\2.png&#39;,0)

print(img.shape)

(64, 64, 3)

# img=cv2.imread(r&#39;C:\Users\LEGION\Desktop\Project Externship\Dataset\test\_set\B\2.png&#39;,1)

cv2.imshow(&#39;image&#39;,img)

cv2.waitKey(0)

cv2.destroyAllWindows()

CNN Video Analysis

import cv2

import numpy as np

from tensorflow.keras.models import load\_model

from tensorflow.keras.preprocessing import image

model=load\_model(&#39;asl\_model\_84\_54.h5&#39;)

video=cv2.VideoCapture(0)

index=[&#39;A&#39;,&#39;B&#39;,&#39;C&#39;,&#39;D&#39;,&#39;E&#39;,&#39;F&#39;,&#39;G&#39;,&#39;H&#39;,&#39;I&#39;]

while 1:

succes,frame=video.read()

cv2.imwrite(&#39;image.jpg&#39;,frame)

img=image.load\_img(&#39;image.jpg&#39;,target\_size=(64,64))

x=image.img\_to\_array(img)

x=np.expand\_dims(x,axis=0)

pred=np.argmax(model.predict(x),axis=1)

y=pred[0]

copy = frame.copy()

cv2.rectangle(copy, (320, 100), (620,400), (255,0,0), 5)

cv2.putText(frame,&#39;The Predicted Alphabet is:

&#39;+str(index[y]),(100,100),cv2.FONT\_HERSHEY\_SIMPLEX,1,(0,0,0),4)

cv2.imshow(&#39;image&#39;,frame)

if cv2.waitKey(1) &amp; 0xFF == ord(&#39;q&#39;):

break

video.release()

cv2.destroyAllWindows()

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1/1Testing the model

import numpy as np

from tensorflow.keras.models import load\_model

from tensorflow.keras.preprocessing import image

model=load\_model(&#39;asl\_model\_84\_54.h5&#39;)

img=image.load\_img(r&#39;E:\Projects\SmartBridge\ModelGen\Dataset\test\_set\D\2.png&#39;,

target\_size=(64,64))

img

x=image.img\_to\_array(img)

x.ndim

3

x=np.expand\_dims(x,axis=0)

x.ndim

4

pred=np.argmax(model.predict(x),axis=1)

1/1 [==============================] - 0s 88ms/step

pred

array([3], dtype=int64)

index=[&#39;A&#39;,&#39;B&#39;,&#39;C&#39;,&#39;D&#39;,&#39;E&#39;,&#39;F&#39;,&#39;G&#39;,&#39;H&#39;,&#39;I&#39;]

print(index[pred[0]])

D

Open CV

import cv2

img=cv2.imread(r&#39;E:\Projects\SmartBridge\ModelGen\Dataset\test\_set\C\2.png&#39;,1)

img1=cv2.imread(r&#39;E:\Projects\SmartBridge\ModelGen\Dataset\test\_set\B\2.png&#39;,0)

print(img.shape)

(64, 64, 3)

# img=cv2.imread(r&#39;C:\Users\LEGION\Desktop\Project Externship\Dataset\test\_set\B\2.png&#39;,1)

cv2.imshow(&#39;image&#39;,img)

cv2.waitKey(0)

cv2.destroyAllWindows()

CNN Video Analysis

import cv2

import numpy as np

from tensorflow.keras.models import load\_model

from tensorflow.keras.preprocessing import image

model=load\_model(&#39;asl\_model\_84\_54.h5&#39;)

video=cv2.VideoCapture(0)

index=[&#39;A&#39;,&#39;B&#39;,&#39;C&#39;,&#39;D&#39;,&#39;E&#39;,&#39;F&#39;,&#39;G&#39;,&#39;H&#39;,&#39;I&#39;]

while 1:

succes,frame=video.read()

cv2.imwrite(&#39;image.jpg&#39;,frame)

img=image.load\_img(&#39;image.jpg&#39;,target\_size=(64,64))

x=image.img\_to\_array(img)

x=np.expand\_dims(x,axis=0)

pred=np.argmax(model.predict(x),axis=1)

y=pred[0]

copy = frame.copy()

cv2.rectangle(copy, (320, 100), (620,400), (255,0,0), 5)

cv2.putText(frame,&#39;The Predicted Alphabet is:

&#39;+str(index[y]),(100,100),cv2.FONT\_HERSHEY\_SIMPLEX,1,(0,0,0),4)

cv2.imshow(&#39;image&#39;,frame)

if cv2.waitKey(1) &amp; 0xFF == ord(&#39;q&#39;):

break

video.release()

cv2.destroyAllWindows()

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KeyboardInterrupt Traceback (most recent call last)

e:\Projects\SmartBridge\ModelGen\Externship Project.ipynb Cell 44&#39; in ()

7 index=[&#39;A&#39;,&#39;B&#39;,&#39;C&#39;,&#39;D&#39;,&#39;E&#39;,&#39;F&#39;,&#39;G&#39;,&#39;H&#39;,&#39;I&#39;]

8 while 1:

----&gt; 9 succes,frame=video.read()

10 cv2.imwrite(&#39;image.jpg&#39;,frame)

11 img=image.load\_img(&#39;image.jpg&#39;,target\_size=(64,64)) [==============================] - 0s 14ms/step

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