CODE

import cv2

import numpy as np

import os

def Gamma(img, img1): #apply formula used for gamma correction except that gamma is the unknown here

h=img.shape[0]

w=img.shape[1]

hls=cv2.cvtColor(img,cv2.COLOR\_BGR2HLS)

hls1 = cv2.cvtColor(img1, cv2.COLOR\_BGR2HLS)

gamma = np.log(hls[h//2,w//2,1]/255)/np.log(hls1[h//2,w//2,1]/255)

hls1[:,:,1]=pow(hls1[:,:,1]/255,gamma)\*255

img1 = cv2.cvtColor(hls1, cv2.COLOR\_HLS2BGR)

print(gamma)

return img1

#return cv2.LUT(img,table)

f1=os.listdir("Resources")

i=0

for imgname in f1:

path1="Resources/"+imgname

path2="GammaC/"+(imgname)#.replace("gtFine\_color.png","leftImg8bit.png"))

img=cv2.imread(path1)

img1 = cv2.imread(path2)

print(imgname)

i=i+1

#cv2.imshow("wqo"+str(i),img)

img1=Gamma(img,img1)

#cv2.imshow("wq"+str(i),img1)

cv2.waitKey(0)