HISTOGRAM EQUALIZATION &MAPPING

import cv2

import numpy as np

from matplotlib import pyplot as plt

img = cv2.imread('C:/Users/student/Downloads/download.jfif', 0)

equ = cv2.equalizeHist(img)

h=cv2.calcHist((img), [0], None, [256], [0,256])

h1=cv2.calcHist((equ), [0], None, [256], [0,256])

res = np.hstack((img, equ))

cv2.imshow('image.jpg', res)

plt.plot(h)

plt.plot(h1)

plt.title("Histogram Mapping & Equalization")

plt.xlabel("Intensity")

plt.ylabel("Frequency")

plt.grid()

plt.show()

cv2.waitKey(0)

cv2.destroyAllWindows()

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| ORIGINAL IMAGE    HISTOGRAM EQUALISATION |
| HISTOGRAM MAPPING |